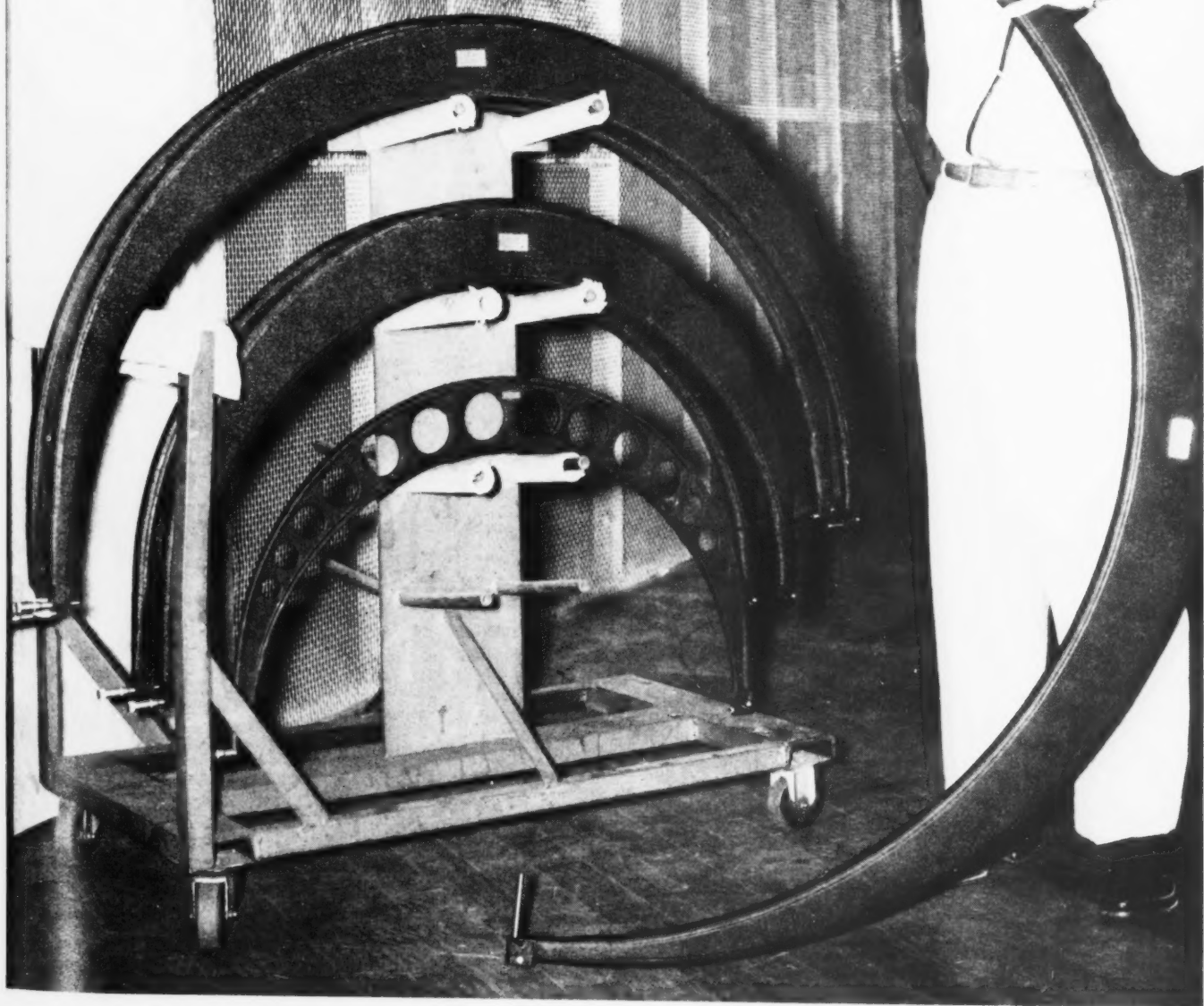


JULY • 1960



THE MICROMETER—
SYMBOL OF PRECISION

Page 6



Have you made the right moves to get the most from your telephone system?

*Our free service can give
you the answer*

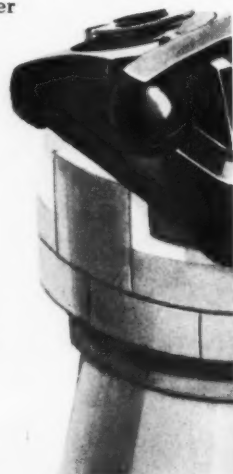
Has your telephone system kept pace with your business? Does it utilize the fastest, most efficient equipment? Can customers reach you promptly? Perhaps your business has outgrown its telephone facilities without your realizing it.

An inadequate telephone system can cost you money. Important calls may be delayed and your business hampered by telephone service not geared to today's needs.

Without obligation to you, one of our salaried communications specialists will review and evaluate your present system. Then, if changes seem advisable, he'll recommend the exact facilities to serve you best — telephone service tailored to your present needs with room for further expansion.

*Just call our business
office for this valuable
free assistance.*

The Southern New England *Telephone* Company



CONNECTICUT INDUSTRY

JULY • 1960

VOLUME 38 NUMBER 7



THIS MONTH'S COVER photo shows E. John Gregory, president and general manager of J. T. Slocomb Co., South Glastonbury, demonstrating a five foot micrometer. Large, crescent-shaped precision tool is made in larger sizes on order and is a Slocomb specialty featuring Rigitube construction for lighter weight and complete accuracy.

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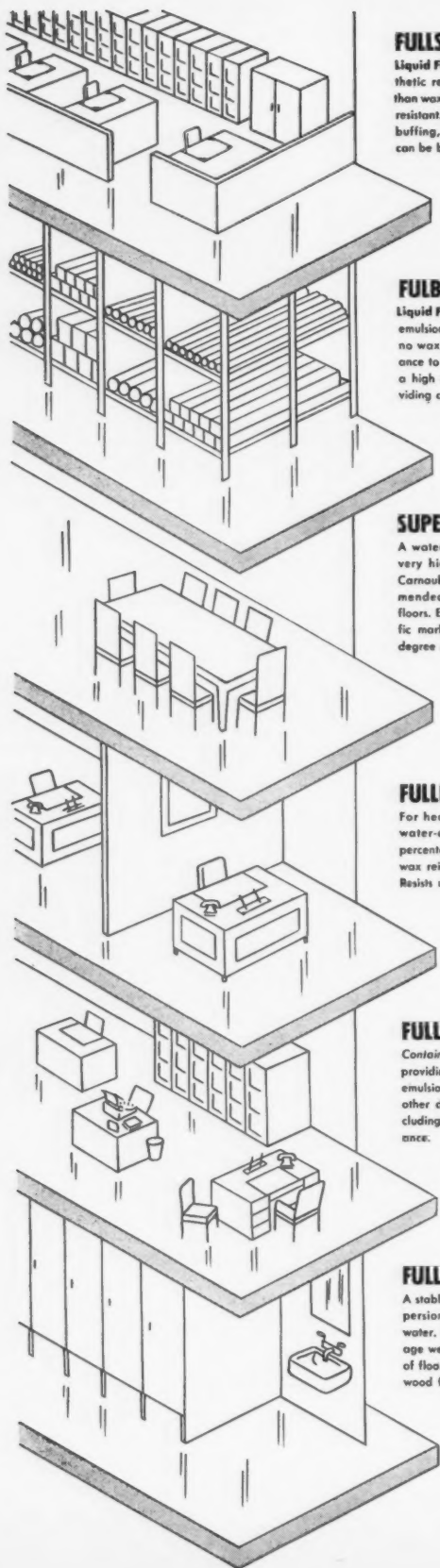
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Published monthly by the Manufacturers Association of Connecticut, Inc., with executive offices at 928 Farmington Avenue, West Hartford, Connecticut. Second class postage paid at Hartford, Conn. As the official magazine of the Manufacturers Association of Connecticut, Inc., it carries authoritative articles and notices concerning the Association activities. In all other respects the Association is not responsible for the contents nor for the opinion of its writers. Subscription rates: one year \$3.00; 30¢ a copy. Subscribers should notify publisher promptly of changes in address. Advertising rates on application.



FULLSTOP

Liquid Floor Finish — contains synthetic resins giving harder finish than wax. Highly slip-resistant. Scuff resistant. Dries to high gloss without buffing, but after prolonged use can be buffed to restore gloss.

FULBRITE

Liquid Floor Finish — a heavy-duty emulsion resin finish that contains no wax. Provides excellent resistance to "traffic marking" Dries to a high gloss without buffing, providing a tough transparent film.

SUPER-FULLDUTY

A water-emulsion floor wax with very high content of #1 yellow Carnauba wax. Particularly recommended for fine, light colored floors. Excellent resistance to "traffic marking" combined with high degree of buffability.

FULLDUTY

For heavy-duty traffic areas. A water-emulsion wax with a high percentage of solids — Carnauba wax reinforced by synthetic resins. Resists marking. Dries to a gloss.

FULLUSTRE

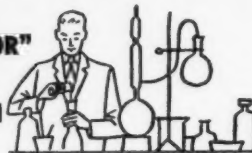
Contains "Ludox", a colloidal silica providing slip-resistance. This water-emulsion wax also maintains the other desirable wax properties including durability and water resistance.

FULLTHRIFT

A stable, free-flowing colloidal dispersion of waxes and resins in water. An economy wax for average wear. Safe to use on all types of floors including properly sealed wood floors.

Longer Lasting Floor Finishes

**MADE TO
"FIT THE FLOOR"
THROUGH
FULLER BRUSH
RESEARCH**



Testing analyzing, retesting — the work goes on — painstakingly, day after day. Experienced chemists . . . skilled technicians . . . the most modern equipment available. They all add up to the world-famous Fuller Brush laboratory! Many of the important new advances in maintenance chemicals originate here. And here, too, the world-wide Fuller Brush reputation for **QUALITY** is strictly maintained.

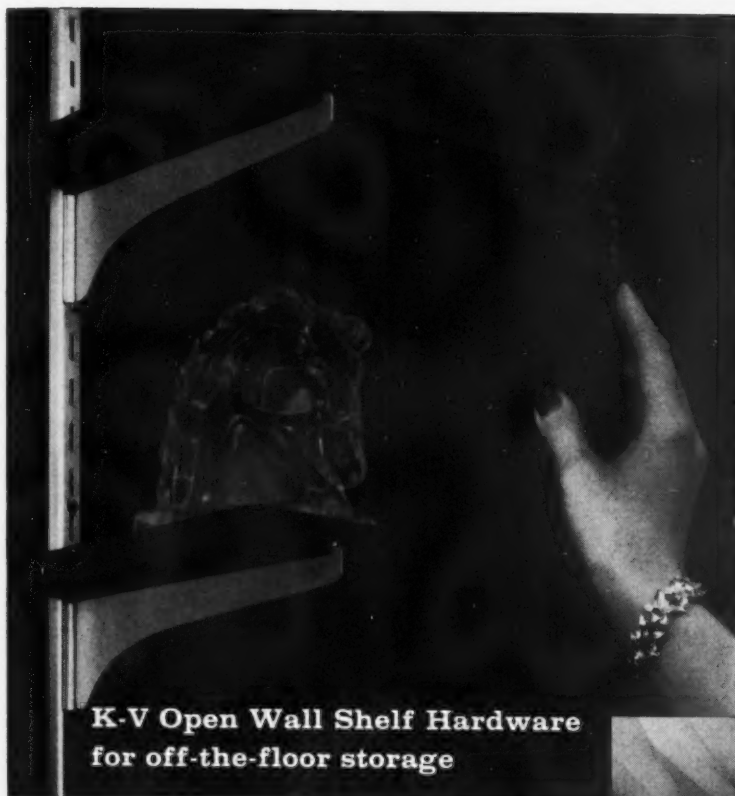
All Fuller Brush Floor Finishes shown are recommended for use on properly sealed wood floors, as well as linoleum, vinyl, asphalt, rubber, terrazzo and ceramic tile. All are approved by Underwriters' Laboratories and Rubber Manufacturers Association.

FULLER BRUSH

EAST HARTFORD 8, CONNECTICUT



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K-V Open Wall Shelf Hardware
for off-the-floor storage

JOB PERFORMANCE

help you
hold down your
manufacturing costs
and
keep up your
product quality
as it does for
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JOB-PERFORMANCE SCORES

1959 - 99.925% 1960 (to date) - 100%

THE K & V PEOPLE have been regular customers of our Detroit Strip Division for over 20 years—a case of customer satisfaction built on consistent strip performance and service.

FOR EXAMPLE, in 1959, they used hundreds of tons of DSC Accutronic* STRIP in K-V products. **JOB PERFORMANCE SCORE**, 99.925%. In 1960, to date, with shipments in excess of last year's, **THE SCORE**, 100%.

WHAT BEARING has Detroit Strip performance on Eastern's? Simply this—**LEVEL GAUGE, EVEN TEMPER, JOB-SUITED FINISH** are inherent properties of DSC Accutronic* STRIP whether it's made in Detroit or in Hamden. Equipment, stripmaking skills and organization attitudes toward customer satisfaction are the same in either plant.

Care for a demonstration of DSC Accutronic* STRIP SERVICE on your products? Just call your nearest DSC Customer "Rep" or write Detroit Steel Corporation, Box 1789, New Haven, Conn.

Performance Proved 
DETROIT STEEL
Flat Rolled and Wire Products



K-V Drawer Slides
never bind, never sag



**K-V
Self-Closing
Drawer Slide**

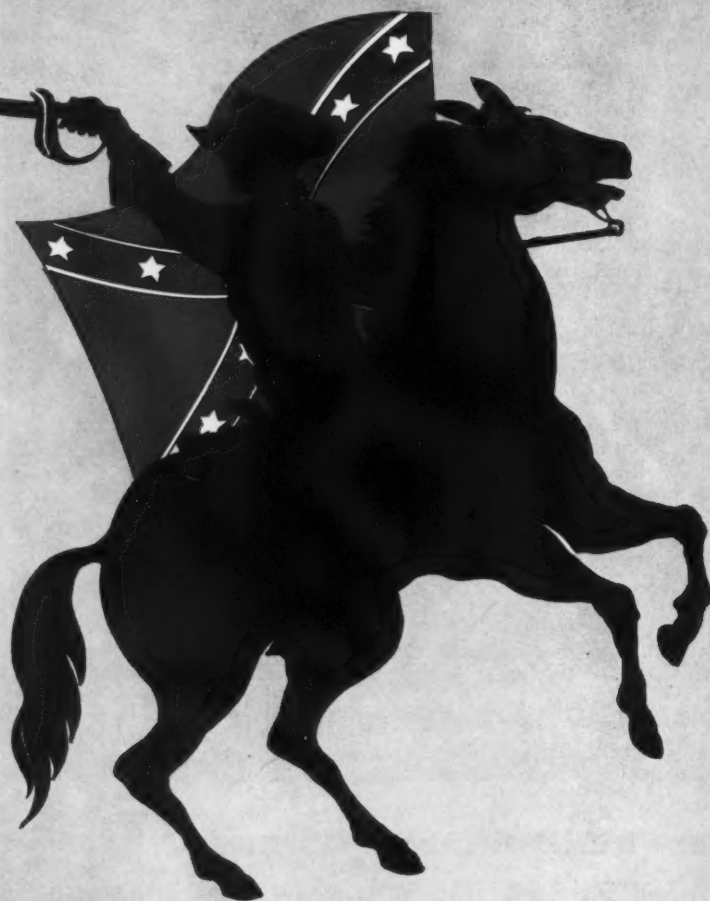
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FUSTEST with the MOSTEST

Many Southerners would deny that General Forrest spoke thus quaintly in explaining his record of Confederate victories. Be that as it may, the words give vivid expression to the aim and accomplishment of



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QUICK DELIVERY of quality BUNKER "C" OIL,
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24-HOUR SERVICE

Diagnosis And Remedy

◆ WE have just celebrated for the 184th time our Declaration of Independence from the tyranny of dictatorship. In our first spirited celebration and in many that followed, we solemnly declared our belief that the individual should be a free agent with full responsibility to choose between right and wrong action.

But what was the spirit of our Independence Day celebration this year—the first in the decade of the Sixties during which the fate of American freedom is likely to be decided? Was there widespread evidence this year or in recent years that we, who have enjoyed the material and spiritual bounties of this concept of individual freedom, are still disposed to honor its birthday or the men who sired it?

Except for a few isolated symbols in the forms of a Fourth of July address here and there at small community celebrations, community and recreation resort fireworks and a few flag-waving speeches by candidates for political office, there was little evidence this year and for many previous years that we are still dedicated enough to the freedom concept either to honor its birthday or to perpetuate its meaning in the minds of youth by dignified celebration. Instead, Independence Day, which would serve us well each year to remind us of our heritage of individual freedom, we hie away to our recreation retreats to gorge ourselves in our favored pleasures that have been allowed to us only as one of the many bounties of our freedom from tyranny.

As one recent observer of national affairs summed up the present scene, "Americans are today smothering from the love of comfort and the desire not to be bothered by bad news." As another current thinker so aptly stated, "A generation that has no respect for the contribution to progress of its ancestors will have no concern for posterity."

Space will not here permit any detailed diagnosis of America's dilemma in this volcanic age nor do we claim the wisdom to prescribe a sure remedy. However, we do presume to make a few observations that fall within both the diagnostic and remedy areas of thought.

Recently there has been a big "Debate on National Purpose" which has been spread upon the pages of a national magazine and continuing for five issues. In effect, the series constituted a diagnosis and some proposed cures. A disturbing formula, blatantly advocated by one writer and suggested in more subtle forms in most of the articles in the National Purpose series declared that American interests were too individual, that there must be more "public responsibility" which means more government, before we can present to the world "a convincing working model of a free society."

Why have we strayed so far from the only truly liberal concept of political life ever recorded—the concept that freed us from the initiative-stifling control of totalitarianism and permitted rugged individualism to create the world's most productive and benevolent civilization in America?

It seems that somewhere in the 1930's rugged individualism was smeared as an associate of industrial piracy with defiance of moral checks, with exploitation. In our headlong retreat from individualism we have yielded to the temptation to shed personal responsibility which has been done in the past with grim consequences, some marked with tombstones of a dead civilization.

Because of our eagerness to have others make our hard choices, there is often loud complaint about the lack of

leadership in Washington, in our state capitols and in our local governments. But Washington and our other seats of governmental power are inhabited by individuals as in other parts of the country. If our living goal is to hide in a social group, if we shrink from being rugged individuals and consistently low rate individualism, why should we expect good leadership? As we sell individualism short, we cut the roots of democratic leadership and open the way for demagogues.

We demand guidance counselors in our schools, but what kind of guidance are they giving? Are they seeking to challenge our youth to be themselves and take the economic risks that go with following a vocation of their own preference, or are they advising them to "play it safe" and pick the life work that seems likely to be most rewarding financially rather than to yield the greatest intellectual, emotional and spiritual satisfactions?

The facts indicate that counseling today, both by professional and lay business counselors, leans heavily toward the mood and the framework of economic determinism. It is a defensive technique that is fatal to the concept of leadership and even falls short of good training for citizenship. Worse still, this advice to choose a vocation on the basis of economic determinism plays right into the hands of the Soviets, for economic determinism is the professed key to their philosophy and their policy. They relentlessly stress that the material life of society is primary; the spiritual secondary. Such a philosophy is a complete denial of the historic American dream—the exact opposite of the ideals which shaped American history. And the irony of it all is that many who have roundly condemned un-Americanism and Communist infiltration have embraced the Stalin doctrine in their counseling of youth. In so doing they have created the feeling frequently expressed in the new nations in Africa and Asia that there is little to choose from between the declared materialism of Communist Russia and the unconscious materialism of the United States.

We have ventured a partial diagnosis of our country's dilemma. What is the remedy?

In capsule form, the solution to our dilemma is to stop our retreat from rugged individualism, and move forward under our freedom formula of "less government and more individual responsibility," and thus recreate the image of the historic American ideal that once shone brightly as the hope of downtrodden people throughout the world. If we would cure our disease of collectivism in our domestic life and kill the virile germ of Communism both at home and abroad we can no longer shun risk or shy away from being controversial. We shall be called upon to use our best persuasive powers to explain the freedom philosophy by every possible means of communication. We shall need to stand for justice and freedom consistently in principle and in detail, regardless of popular notions to the contrary. And above all, we shall need to pray for wisdom, guidance, courage and a zeal for freedom that will match the zeal of our enemies to enslave us.

Twice before in a single generation, during World Wars I and II, Connecticut mechanical and managerial skills furnished the indispensable sinews to win victory over dictators. With equal determination, imagination and drive we can win a third victory over the totalitarians in the Sixties in the all-out war for men's minds.



Snap Gage Micrometer being used by Niles J. Brook, vice president. Two gages, top and bottom, allow rapid production inspection of outside diameters of anvils to be installed in large micrometers. (Right) The J. T. Slocumb Company plant in South Glastonbury.



The Micrometer-Symbol of P

■ AMERICA is a land of plenty. We are blessed with all forms of modern conveniences. Our machines are faithful servants performing the most menial and highly complicated tasks. If you were asked to name the reason for our affluence in one short phrase, you might ponder but soon you would arrive at the obvious answer—mass production.

But what made mass production possible? Again the answer is clear—the ability to make precision parts conforming to exact dimensions. Precision measurements enable the interchangeability of component parts and make it possible for many manufacturers to work on an intricate machine or engine. Modern technology demands precision; without it there would be chaos and disaster.

Symbol of Mass Production

If the science of mass production ever adopts a symbol, it should be the crescent-shaped tool familiarly called "Mike." The micrometer has become

the constant trustworthy companion of the skilled craftsman. No artisan, however skillful, can work to a higher accuracy than that of his measuring instrument.

One of the most widely known and internationally respected micrometers is that made by the J. T. Slocumb Company, Glastonbury, Connecticut. (The English manuals on micrometers insist on calling it Slocombe.) The firm dates back to 1891, the year which ushered in not only the "gay nineties" but was the harbinger of the "horseless carriage" which changed the face of America and altered our living and working habits.

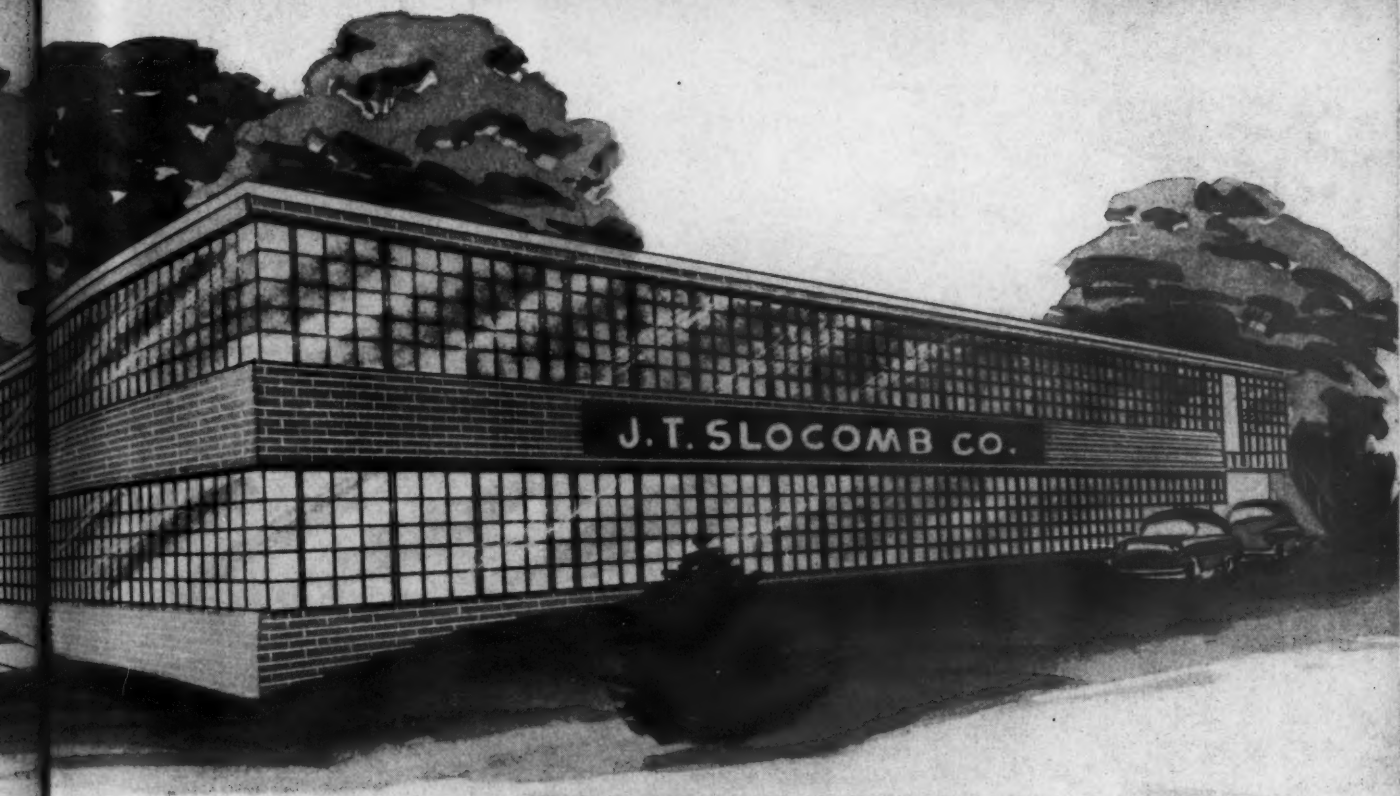
Today, we live in a world of precision. A mere one-thousandth of an inch error in your automobile piston, in your refrigerator motor and other appliances can cause havoc. Your engines and motors will burn up. Without precision our machines and vehicles would become useless mechanical monsters. Complete accuracy, dependability, versatility, ruggedness and uniqueness are terms used synony-

mously with the J. T. Slocumb micrometers.

"Speedmike"—Geared to High Speed Production

The Glastonbury firm holds most of the basic patents associated with special purpose micrometers. They fabricate over 900 types and sizes capable of measuring thicknesses from one ten-thousandths of an inch (0.0001) to six feet and more, if needed. Their most unique micrometer is the "Speedmike" which can be read directly like the mileage meter on your car. It eliminates time-consuming calculations and errors, preventing material and production losses.

As a measuring instrument, the micrometer is based on the principle of the calibrated screw. The screw contains forty threads to the inch. By turning the screw one revolution you move it one-fortieth or twenty-five thousandths of an inch (0.025). Each revolution is divided into twenty-five division or fractions. Hence, each di-



This direct reading micrometer is a Slocomb exclusive. It can be read digitally like the mileage meter on an automobile. It eliminates time-consuming calculations and errors resulting in material and production time losses. Speedmike can be used by a semi-skilled operator.

f Precision

vision represents one-thousandth of an inch (0.001).

To read a conventional micrometer you count the number of revolutions and add any fraction. Both the micrometer sleeve and thimble, which fits over the barrel, contain scales to count the revolutions and aid in translating them into measurements. The Speedmike, on the other hand, has only three small portholes arranged horizontally along the barrel. Each porthole shows one number. By merely scanning the three numbers you get a quick direct reading. For example, if 1 2 3 appears, this totals one-hundred and twenty-three thousandths of an inch (.123).

The significance of the Speedmike is clear not only in decreasing errors and saving valuable time but it can also be used by a semi-skilled operator.

The Speedmike, although first manufactured in the 1920's, was never tooled for mass production. But since 1953, when a group of foresighted, versatile young men purchased the J. T. Slocomb Company and merged





Quick acting dial type micrometer is used by a receiving inspector at the J. T. Slocomb plant to rapidly measure sheet metal stock thickness. Top dial is read numerically and directly, eliminating a specially skilled or trained operator.

their other interests, the Speedmike has become one of the most popular lines.

Origin of J. T. Slocomb Company

The J. T. Slocomb Company originated in Providence, Rhode Island, in 1891. At that time, John T. Slocomb and his partner, C. E. Barlow, operated the plant. In 1915, the business was acquired by William McSkimmon. Fifteen years later Mr. McSkimmon's son, Donald, took the reins of management. In the fall of 1953, he retired and sold the firm to the present enterprising group who moved the company to Connecticut.

New Owners Diversify Production

The group represented the heads of two relatively new but growing con-

cerns—Green Machine Company and Turbo Industries. Since 1946, the Green Machine Company had been fabricating special parts for aircraft engines while Turbo Industries had been manufacturing (since 1951) temperature and pressure measuring instruments. The owners of both companies were seeking a firm which would allow them to make and sell their own finished product, which became available with the discovery and purchase of The J. T. Slocomb Company.

The purchase was made on the strength of the advice and experience of Daniel Provan, present vice-president of J. T. Slocomb and former general manager of Turbo, who was familiar with all makes of micrometers and knew Slocomb's reputation for quality. Within a few months both local companies were merged into J. T. Slocomb to streamline the operation.

Today, the firm not only produces micrometers but develops and fabricates highly specialized aircraft engine parts such as thermocouples, turbine blades, case weldments, high temperature resisting bolts, carbon face oil seals which separate oil from air, complete rocket nozzle assemblies for the Vanguard program and other components.

Expansion and Modernization

The foresightedness, flexibility and know-how of the five officers who direct the company can be seen in the company's development. When they acquired J. T. Slocomb in December, 1953, they leased a plant on Naubuc Avenue, Glastonbury. This had two floors, 12,000 square feet, and housed 45 employees. Two years later additional space was added and an adjacent building was rented. But space was still inadequate.

In the spring of 1956 the Company bought the Matson Mill property and started converting the mill into a smoothly functioning industrial plant. "The job was accomplished almost completely by the company's maintenance crew directed by the foreman. Meanwhile, operations were maintained in the leased building," proudly states Niles J. Brook, vice-president of sales and engineering. "By Fall," Mr. Brook said, "we opened our new quarters containing 50,000 square feet of working area and another 30,000 square foot area for future expansion. We had 200 employees on our payroll."

"We have always attempted to look ahead, to be prepared for the industries' needs and offer them a highly reliable, durable precision instrument," observes E. John Gregory, president and general manager. "In so doing, our outdated machinery was sold and we installed the latest equipment. Based on considerable research and market analysis," Mr. Gregory stated, "we established new production methods to improve our product and reduce cost."

Product Improvement

The Speedmike is now mass produced, is available in sizes ranging from one to six inches and larger dimensions on order. J. T. Slocomb maintains an attentive ear for suggestions from the people who know best—the consumers. In the past, the three numbers on the micrometer barrel visible through the "portholes" were not covered. Although the space between the dials and their housing was very tight, tiny foreign particles filtered through and occasionally caused interference in the fine gear mechanism. The company now plans to cover the three

portholes with magnifying lenses making them dust-tight.

But the Speedmike is not the only exclusive item. All Slocomb micrometers are constructed with a unique adjusting nut assembly providing full engagement with the spindle thread. This feature makes the sensitive instrument shockproof. If a workman accidentally drops the micrometer on the hard concrete shop floor, it will still be in perfect operating order. Many craftsmen cannot easily adjust themselves to this disconcerting experience and are still compelled to ease their mind by checking out the instrument's accuracy. Eventually, they accept the ruggedness of this normally delicate tool.

"Mikes" for Every Need

Slocomb boasts "The most complete line of micrometers in the world." The slogan was not conceived by hucksters. The entire Slocomb line includes over 900 micrometer varieties measuring everything from metal to paper. There are sheet metal micrometers designed with a deep elongated crescent to perform a special job. The quick-acting dial "mike" was developed to rapidly measure moving materials in rolling mills. For determining the wall thickness of tubing, the specially designed tube micrometer is available. In measuring the pitch diameters of screw threads, the screw thread "mike" would be used. The thickness of airfoil surfaces can be quickly measured with the airfoil micrometer. There is also the disc "mike" for measuring ring grooves, ribs, paper, cloth, plastic, rubber and other soft materials.

In the larger size micrometers from 36 inches to 5 feet and larger, Slocomb has introduced Rigitube construction combining the weight-saving structure of a reinforced tubular frame with the great rigidity for accuracy. Storage racks, storage cases, combination optional features, varying terminals, anvils and spindles are all part of the Slocomb line to meet individual requirements.

Personalized Service in Home State Market

Although Slocomb micrometers have found their way all over the world, the firm is not the largest in the country. It ranks fourth or fifth. Perhaps, because of this, some New England customers fail to look in their own back yard. A classical illustration was when the Hartford Electric Light Company (HELCO), Middletown, Connecticut, was overhauling its large steam tur-

(Continued on page 64)



Speedmike parts ready for assembly. Over fifteen tooled pieces make up Slocomb's exclusive direct reading Speedmike micrometer. (Left to right) frame, bushing, dials, dial sleeve, spindle, large adjusting nut (a unique feature), tension spring, compensating nut, thimble and thimble retaining screw. In front are pinion housing clamp screws, pinion and pinion support.

"Quick, give me the front office. . . They just hired me a man who reads a micrometer with, 'It's 5 and a long line, a little line and three itty bitty marks'!"

Courtesy of American Manufacturer

SLOCOMB
direct reading
SPEEDMIKE
is the answer

J. T. SLOCOMB CO.
SOUTH GLASTONBURY, CONNECTICUT

"Speedmike is the Answer" cartoon is used by J. T. Slocomb as part of their advertising program. Humor represents a cogent truism.



Little Lorraine Maramarco points to special Veeder-Root counter which has just recorded her as the 498th family day visitor. With her is her mother, Genevieve Maramarco, her brother Anthony, and friend Theresa Cota.



Anthony, Lorraine and Mrs. Maramarco watch Dad, who is in the Inspection Department, as he shows them how he checks quality on a part.



The Maramarco family look in on Veeder-Root's "white room" where miniature mechanisms are precisely assembled.

Family Day At Veeder-Root



The Maramarco family joins crowd at one of Veeder-Root's several product displays.



Mrs. Maramarco and the children chat with President W. C. Stauble in his office.



Visitors view a section of assembly operations.

■ VEEDER-ROOT INC. recently completed an extensive plant modernization and rearrangement program in both its Sargeant Street and Homestead Avenue plants in Hartford. Alert to the importance of employee communications, the company kept its employees fully informed about the purpose and progress of the program. The climax occurred on May 18, when Veeder-Root held a family day open house so families and friends of its people could see the operations of this world famous manufacturer of counting, controlling and computing instruments.

Planning In Depth

Veeder-Root people had a preview on the two days preceding family day, and for five months preceding the event almost all employees participated in one way or another in the careful preparations. Officers and directors of the company had their own preview on the afternoon before the big day.

Planning was started early in December, 1959 when an actual completion date could be established for updating facilities of the firm. While many companies become discouraged with outmoded facilities and move to new locations, far-sighted Veeder-Root planners visualized the potential of their existing buildings and went to work to convert their thoughts into working realities. The pay-off was demonstrated on family day when more than 5,000 guests toured the plant and offices and saw the efficient, pleasant

results ideally adapted to small parts manufacturing.

Two months before family day, W. C. Stauble, Veeder-Root's president, told employees whom he always refers to as his associates, that the date was set for family day. He also said: "We think visitors will be seeing an entirely new Veeder-Root. They will see new production equipment, the latest in lighting and pleasant working conditions, the best in testing and laboratory layouts and equipment streamlined receiving and shipping departments—all designed to bring in more orders for quality products we can make and ship at a profit."

Growth and change are part of the Veeder-Root tradition. More than a quarter of the total business of the company today comes from the production and sale of products which did not exist 20 years ago. From the bicycle cyclometer of 1895 to space ship controls in 1960 covers a world of progress signalized by Veeder-Root's ability to think modern and cling only to that of the old which is helpful in creating the new. It was this growth and change that the company sought to dramatize through a carefully planned family day.

Plans for family day started with the appointment of James F. Luby, director of industrial relations, as general chairman, by Vice President Leon J. Dunn. Assisting him were Gilbert T. Coover, Factory Manager, in charge of routes and guides; Peter H. Morganson, Assistant Chief Engineer, signs and exhibits; Allan L. Burton, Director of Research and Develop-

ment, traffic and parking; Robert L. Tetro, Secretary and Assistant Treasurer, tickets and name cards; and C. Charles Lombardi, Sales Manager, hospitality. They were assisted and guided by Fred Barrett of Martin Wright & Associates, Inc., Veeder-Root public relations counsel.

Committees were formed extending participation as far in depth as possible. Interest ran high during the planning stages as everyone took part in providing ideas and suggestions and in getting the important spade work done. Everyone was kept informed through management news bulletins, newsletters, and bulletin boards. Rumors, usually rampant when a company plans a special event, were non-existent because everyone had all the facts right through the planning stages.

In order to handle the expected visitors, the decision was made to adjust the working schedules for the day of the open house to allow the plant to be in full operation and open to visitors from 4:00 P.M. until 9:00 P.M. Invitations mailed stated that tours would be from 2:00 to 4:30 in the afternoon and from 6:00 to 9:00 in the evening. The first visitor arrived at 1:13, but all was in readiness 47 minutes early.

Hopes for a record attendance faded with drops of rain which fell during most of the day, but a steady stream of wives and children, cousins and aunts, uncles and friends made the hour-long trip which covered every nook and cranny of the plant and offices. Like an old Horatio Alger story children went the full route from the receiving department to the president's office.

Employees Explain Jobs

Individuals working at their regular jobs took delight in explaining exactly what they were doing to visitors who paused to watch a particular manufacturing or assembly operation. Guests were fascinated with the one area in the entire company where they could not get a closeup view, but had to observe through glass windows. This is the "white room" where Veeder-Root people, specially chosen for their skill, assemble tiny size precision counting instruments used in missiles, rockets and aircraft. Here is a sealed-off, temperature-controlled, glass-walled area which is one of the most advanced environment-controlled assembly areas known. People who work here wear white nylon coats and caps which are vacuum cleaned as they enter the room, where even the air is electronically filtered to remove dust and other impurities.

(Continued on page 28)



William Horowitz, right, chairman of the State Board of Education and vice president of Botwinik Brothers, Hamden, chats with MAC President Harvey L. Spaunburg, center, and Fredrick H. Waterhouse, executive vice president, at the first annual Industrial Education Awards luncheon of the Association. Awards went to the highest rated student in each of the state's technical schools.



MAC Vice President Carlyle F. Barnes makes Citation of Merit award to Roger Wasco, J. M. Wright Technical School, Stamford. Other prize winners are, left to right, Henry Lattanzi, Jr., Bullard-Havens Technical School, Bridgeport; James McGuire, Henry Abbott Technical School, Danbury; Ronald Mancini, Warren F. Kaynor Technical School, Waterbury, and George E. Martin, Oliver Wolcott Technical School, Torrington.

MAC Presents First Industrial Education Awards

■ REALIZING that the future industrial growth of Connecticut depends upon its industrial education resources, including facilities and teachers, and above all, the quality and diversity of the skills acquired by Connecticut's youth, the Association, from its earliest days as a corporation, has continued to foster industrial education in the state. It has promoted not only the expansion of facilities to keep pace with the state's growing population, but also has sought to encourage more young men to enroll

and complete one of the scores of combination apprentice training and technical education programs open to them in Connecticut's metal working plants.

During the past few years MAC's efforts have taken the form of a cooperative effort with the Central Connecticut and Western Massachusetts and the Southern Connecticut Chapters of the National Tool and Die Association to encourage the expansion of apprentice training in combination with technical education and to stim-

ulate enrollment in these programs by a larger number of high school graduates. The program also sought to interest more companies to launch apprentice training courses.

This cooperative effort took the form of an annual Metal Trades Competition which tested both the theoretical knowledge and manual dexterity of the qualified apprentices who were entered in the contest by their employers, with non-money prize awards being given to the six highest scoring contestants and recognition to the next highest rated finalists in the competition.

Noting the rapidly changing technology which has been occurring in recent years, as well as a growing shortage of trainees, the Association's Board of Directors with the cooperation of the Vocational Division of the State Department of Education, sought to stimulate greater interest in technical training by inaugurating late in 1959 an annual Industrial Education Award program which would give an award of \$50 and a Citation of Merit to the highest rated student in each of the state's technical schools.

At the First Annual Presentation luncheon held at the Hartford Club, May 18, fifteen Connecticut young men were honored for their outstanding records in industrial education as members of the 1960 graduating classes at the state's fourteen technical schools and the one technical institute.

Taking an active part in the ceremonies, attended by the students and their instructors were: Harvey L.



MAC President Harvey L. Spaunburg presents Citation of Merit to Richard T. Desloge of Stafford Springs, prize winner from the Windham Regional Technical School in Willimantic. Other winners are, left to right, Peter Senak, Jr., Hartford State Technical Institute; Peter Panteleakos, H. H. Ellis Technical School, Danielson; Wayne P. Walker, Eli Whitney Technical School, Hamden, and Kenneth W. Sullivan, Albert I. Prince Technical School, Hartford.



Emmet O'Brien, director of the Vocational Education Div., State Dept. of Education, congratulates Robert Bocompani of the E. C. Goodwin Technical School, New Britain. Other prize winners are, left to right, Karl H. Yetter, Norwich Regional Technical School; Robert Rukas, Howell Cheney Technical School, Manchester; Warren Hass, Horace Wilcox Technical School, Meriden, and Emilio N. Cofrancesco, Vinal Regional Technical School, Middletown.

Spaunburg, president of MAC; Carlyle F. Barnes, vice president, and Frederick H. Waterhouse, executive vice president; and Emmett O'Brien, director, Division of Vocational Education, Connecticut State Department of Education.

Head table guests at the luncheon included William Horowitz of New Haven, Chairman of the State Board of Education, Richard W. Howes, Assistant Director of the Division of Vocational Education, and Dr. Theodore Powell, public information officer of the Department of Education.

In his brief opening remarks Mr. Waterhouse welcomed the prize-winning students and spoke of his pleasure in being able to inaugurate the Industrial Education Award program on an annual basis. He also expressed the hope that the awards would be an inspiration to them in reaching a high standard of excellence in their life work.

President Spaunburg, after recalling a number of memorable events in his own career, emphasized the fact that their graduation marked only a stepping stone or commencement of their lifetime of education. He observed that to attain success they would find it necessary to carry on a continuing program of study in order to keep abreast of our fast-changing technology. Again referring to his own life experience, he emphasized the joys of working with one's hands in creating something as a means of relaxation and mental stimulus.

Mr. O'Brien joined in the sentiments expressed by Messrs. Spaunburg

and Waterhouse and re-emphasized the necessity for constant study by the graduates to keep abreast of current developments and thus assure their progress in their respective areas of endeavor.

The awards of \$50 and a Citation of Merit were presented by Carlyle F. Barnes, vice president of the Association. The prize winners and their field of specializations were:

Hartford County—Kenneth W. Sullivan, son of Mr. and Mrs. George J. Smith, 113 Westland St., Hartford; Albert I. Prince Technical School, Hartford, mechanical drafting; Robert Rukas, son of Mr. and Mrs. Joseph Rukas, 590 North Main St., Manchester, Howell Cheney Technical School, Manchester, machine shop practice; Robert Bocompani, son of Mr. and Mrs. Peter Bocompani, 25 Willow St., New Britain, E. C. Goodwin Technical School, New Britain, machine tool practice; Peter Senak Jr., son of Mr. and Mrs. Peter Senak, 356 East Road, Bristol, State Technical Institute, Hartford, electrical technology.

Litchfield County—George Martin, son of Mr. and Mrs. Edward Martin, East St., Litchfield, Oliver Wolcott Technical School, Torrington, mechanical drafting.

Tolland County—Richard T. Desloge, son of Mr. and Mrs. Louis H. Desloge, 276 Park St., Stafford Springs, Windham Regional Technical School, Willimantic, electrical practice.

Windham County—Peter Panteleakos, son of Mr. and Mrs. Potes Panteleakos, 9 Leander St., Danielson, H. H. Ellis Regional Vocational-Techni-

cal School, Danielson, machine shop practice.

Middlesex County—Emilio N. Cofrancesco, son of Mr. and Mrs. Charles Cofrancesco, 1 Stow Ave., Middletown, Vinal Regional Technical School, Middletown, mechanical drafting.

New London County—Karl H. Yetter, son of Mr. and Mrs. John H. Yetter, Box 168, Toll Gate Rd., Groton, Norwich Regional Technical School, mechanical drafting.

New Haven County—Wayne P. Walker, son of Mr. and Mrs. Charles Walker, 51 Windsor Rd., Hamden, Eli Whitney Regional Technical School, Hamden, machine shop practice; Ronald Mancini, son of Mr. and Mrs. Dominick Mancini, 117 Tudor St., Waterbury, Warren F. Kaynor Regional Technical School, Waterbury, mechanical drafting; Warren C. Hass, son of Mr. and Mrs. Richard Hass, 119 Windsor Ave., Meriden, Horace Wilcox Technical School, Meriden, electrical practice.

Fairfield County—Henry R. Lattanzi Jr., son of Mr. and Mrs. Henry R. Lattanzi, 45 Rockland St., Bridgeport, Bullard-Havens Technical School, Bridgeport, mechanical drafting; Roger Wasco, son of Mr. and Mrs. Michael J. Wasco, 79 Elizabeth Ave., Springdale, J. M. Wright Technical School, Stamford, mechanical drafting; James F. McGuire, son of Mr. and Mrs. James E. McGuire, 21 Virginia Ave., Danbury, Henry Abbott Technical School, Danbury, mechanical drafting.

Jobs for the Handicapped— Passports to Dignity

PATRICIA ANN BROWN
Wallingford, Connecticut

Editor's Note—This essay won first prize of \$500 and an all-expense trip to the annual meeting of the President's Committee on the Employment of the Physically Handicapped in Washington in the 1960 essay competition sponsored by the Connecticut Governor's Committee on Employment of the Physically Handicapped and participated in by 364 essay contestants from 16 areas of the state.

In addition, Miss Brown's essay won a local prize of \$25 and a plaque placed in Lyman Hall High School, Wallingford, where she is a senior, a member of the Honor Society and editor of her class year book. She is also a finalist in the National Merit System Scholarship Awards Contest.

Because she so ably presented the case for hiring the physically handicapped, C.I. is publishing her essay in the hope that it may promote the hiring of a larger number of physically handicapped persons.

M.A.C., as a member of the Governor's Committee on Employment of the Physically Handicapped, was, in a very real sense, a sponsor of the contest. Among its members who have contributed most of the funds to make the contest awards possible are: Acme Wire Co., C. H. Dexter & Sons, Inc., Flexible Tubing Co., Fuller Brush Co., Hudson Paper Co., Pitney Bowes, Inc., Royal McBee Co., Stamford Rolling Mills.



PATRICIA A. BROWN

■ HISTORY has seen many handicapped people rise to greatness in spite of their misfortunes. Moses became the great lawgiver, the mouthpiece of God, although he suffered from a speech impediment. He said he was not equal to the task of delivering Israel, declaring, "I am slow of speech, and of a slow tongue."¹ God urged him to overcome the difficulty, for He said, "I will be with thy mouth, and teach thee what thou shalt say."² A disease which most authorities have identified as epilepsy could not keep Saul of Tarsus from one of the greatest missionary endeavors of all time: the conversion of a world to Christianity. John Milton, afflicted with blindness from the age of forty-five,³ composed *Paradise Lost*, one of the best-known English poems, after the loss of his sight. Picturing in his mind's eye the scenes and characters of the great drama, he dictated to his daughters vivid lines such as:

"At once as far as Angels ken he views
The dismal Situation waste and wild,
A dungeon horrible, on all sides
round

As one great Furnace flam'd, yet from
those flames

No light, but rather darkness visible
Serv'd only to discover sights of woe,

Regions of sorrow, . . ."⁴

Ludwig van Beethoven, "the greatest name in all music,"⁵ achieved this honor by composing, in his later years, without ever hearing the notes and harmonies. Thomas Alva Edison, also partially deaf, invented some of the modern world's most useful necessities, among them the electric light bulb. Franklin Delano Roosevelt, the thirty-second president of the United States, was elected to that high office in spite of the fact that he was paralyzed from polio. These men, and countless others, illustrate the heights to which the handicapped can rise.

Handicapped Have Great Potential

The handicapped today have these same potentialities. Wars and accidents have created many handicapped persons, as well as have disease and congenital circumstances. These handicapped persons need to find their place in society. Are they to become useful,

productive citizens? Or will they become instead a burden to themselves and others? Successful rehabilitation, both mental and physical, can prepare them for almost normal living. Rehabilitation depends very much upon the emotional make-up and mental attitude of the handicapped. If he develops a good outlook on life, without self-pity or a feeling of inferiority, he has conquered his own major difficulty.

Comparison With Unimpaired Workers

The findings of the President's Committee on Employment of the Physically Handicapped illustrate this fact. In a survey of 11,000 disabled and 18,000 non-disabled workers in 100 plants, the committee concluded that "Impaired workers as a group produce at slightly higher rates than unimpaired workers on the jobs." Physical handicaps do not interfere with normal or above-normal production. "Impaired persons sustain fewer disabling injuries than non-impaired workers exposed to the same hazards," and "Impaired workers have the same minor injury rates as other workers." Employers need not worry about higher

(Continued on page 34)

¹Exodus 4:10

²Exodus 4:12

³Book of Knowledge, vol. 4, p. 1238

⁴Paradise Lost, Book I, 11. 59-65

⁵Book of Knowledge, vol. 19, p. 6915

The Importance of Scrap Control in Reducing Costs

By D. E. PATTERSON, C.P.A.
Price, Waterhouse & Co., Hartford
(From an article prepared for
The Price Waterhouse Review)

The careful accounting for and review of scrap and salvage operations may brighten the profit picture in many companies.

♦ COST control is one of the most challenging problems confronting management in today's dynamic economy. With the constantly rising wages and prices in recent years, most management executives have become more cost conscious and have been placing greater emphasis on cost reduction, particularly through accounting control. One area not so often reviewed in accounting literature, but an area in which unusually large savings can frequently be realized, is that of the proper accounting control and management of scrap.

In one company, a careful study of scrap and salvage operations produced changes in procedures which resulted in substantial savings. For several years the company had scrap and material usage losses exceeding a half million dollars annually. Management was aware of this but had accepted the losses as normal for its operations. Diminishing profits in recent years caused the company to seek ways of reducing costs and prompted a special study of its scrap and material usage losses. Management was quite shocked to find that these losses could be substantially reduced through changes in procedures and controls.

In another case, a study by a company's independent accountants showed that defective castings returned to the company's foundry by its machine shop resulted in a net additional cost of about eight cents a pound. This cost applied to the company's volume of defective castings indicated losses totaling almost a million dollars annually. While much of the loss was unavoidable in this particular instance, there is, nevertheless, inherent danger in accepting reported scrap and waste as normal and proper

merely because their relation to production volume has remained fairly constant for several years.

Records of scrap and waste are often used to conceal diverted materials and income or stolen goods. In one recent case, a company in the publishing industry discovered that it had lost about \$300,000, mostly in a two year period, through the fraudulent disposal of both scrap and good paper by one of its employees.

The importance of scrap and waste is frequently underestimated, and opportunities for cost reduction through greater control of the generation and disposal of scrap and waste are frequently overlooked. Actually, a well

generated in the fabricating operations of manufacturing industries.

Based on data compiled by the Business and Defense Services Administration in its 1957 publication entitled "Industrial Scrap Generation," nearly 40% of all industrial iron and steel scrap comes from the motor vehicle and parts industry; over one third of all aluminum scrap comes from the aircraft and aircraft equipment and parts industry; and, about one fourth of the copper base scrap comes from the valves, fittings and plumbing fixtures industries. This publication also shows that about one fifth of all iron, steel, aluminum and copper going into production comes out as scrap:

Industry	Industrial scrap as a per cent of material consumed		
	Iron & Steel	Aluminum	Copper
Aircraft and parts	30%	39%	18%
Aircraft	35	48	21
Aircraft engines	35	37	31
Fabricated metal products	12	14	29
Motor vehicles and equipment	30	17	18
Screw machine products	50	49	47
Average for all industries	19	18	20

defined and well managed scrap control and disposal program can mean many extra dollars of income. Furthermore, profits can often be increased much more quickly by reduction or elimination of scrap losses than by increasing sales—and without the capital risk.

Scrap disposal and reclamation is a big business; in dollar value it is one of our nation's most significant industries. A recent issue of the U. S. Department of Commerce's "Survey of Current Business" states that the annual consumption of iron and steel scrap in the United States exceeds eighty million tons. While a portion of this scrap represents salvage from articles no longer in use, much of it is

Industrial scrap generation ratios range from about 50% for such industries as screw machine products and ball and roller bearings, to as little as 5% for structural and ornamental work. Viewed geographically, Connecticut's scrap generation ratios for iron, steel and copper are the highest of the major scrap producing states, and for aluminum are well above the national average.

Responsibility for Scrap Control

Providing protection against losses arising from scrap, waste and spoilage is an important part of management's general responsibility for safeguarding company assets and maintaining a maximum degree of operating efficiency

Because of its length and nature this subject matter is being published in article form rather than in the usual Accounting Hints department. It was contributed by a member of the Hartford Chapter National Association of Accountants.

and economy. The protection against such losses is obtained largely through accounting records and controls, but also through personal observation, coordination of effort and assignment of individual responsibilities. Recognition of individual responsibilities is highly essential to an effective scrap control program.

Although the chief financial or accounting officer is generally considered to have prime responsibility for safeguarding assets, the responsibility for scrap and spoilage control extends to other officials, department heads, and even general factory employees. It is, therefore, most important that financial responsibility for losses due to scrap and spoilage be assigned to individual departments or cost centers. This, of course, requires sufficient records and analyses to permit the segregation of costs related thereto by departments and centers of responsibility.

In calculating the amount of loss due to scrap and spoilage, consideration must be given not only to the original value of material physically scrapped and the labor and overhead applied to it, but also the labor and overhead costs of salvaging, rework, repair and inspection operations related to or resulting from defective and spoiled work. By fixing the responsibility for these financial losses, the need for control is emphasized and the chances of effecting cost reductions in this area is greatly enhanced.

Responsibility for Defective Work

Although some amount of defective or spoiled work is inevitable, the fact is that defective work does not just happen it is caused. It may be due to carelessness on the part of machine operators, inadequate supervision of factory employees, the use of defective materials or the wrong materials, faulty equipment and tools, and errors in product design and processing. While this list does not include all possible reasons, it should be indicative of the wide area of responsibility for reducing and minimizing losses due to defective work.

The quality of workmanship is, of course, within the jurisdiction of the production supervisors and foremen. The condition and types of raw materials and parts used are the responsibility of several departments, including engineering, procurement, materials handling and inspection as well as the production departments. The production, engineering and maintenance personnel are responsible for the nature and condition of tools and equipment used in production. The engineering department must also assume responsibility for product design and

processes. The salvage department's duties include the collection, segregation, reclamation and disposal of scrap and waste, but this department, too, ought to be instrumental in reducing the amount of scrap loss.

This wide range of responsibility points up the need for definite assignment of individual responsibility and coordination of effort. It again emphasizes the necessity for adequate records and analyses of the cost and causes of defective work and scrap losses.

Establishing Controls

Cost analyses usually do not probe deep enough to expose and evaluate the several causes of defective work and scrap losses. Furthermore, it may be many days or even weeks after the losses have been incurred before the analyses are available for use. In order to track down the areas and eliminate the causes of such losses, cost analyses have to be coupled with good statistical quality control on the production line. And control of quality is obtained largely through the control of spoilage.

In establishing controls or in expanding existing controls, business judgment must be exercised in weighing the relative risks against the cost of the controls. It is conceivable that inadequately controlled scrap, spoilage and waste might result in losses equal to, or greater than, those which may arise in other areas where elaborate controls have been provided. The required degree of control has to be determined on the basis of knowledge of the company's operations and the nature and causes of its defective work and scrap losses. This can effectively be done through special statistical and scientific studies by production engineering, production control and accounting department representatives working together as a management team.

Comparisons of the company's operations with those found in similar plants and comparisons of its scrap generation ratios with the average for the industry may prove helpful in evaluating controls over scrap. Such comparisons will not, however, prove that the controls employed are either adequate or inadequate. If the company's accounting system already provides for scrap, spoilage and rework reports, they must be studied and analyzed as to sources and causes of loss. In some cases the production, salvage and rework operations and the scrap itself may have to be physically inspected and studied. Finally, costs must be analyzed by the major types of defects found. Such special studies will indicate those areas in which controls need be strengthened and may also

permit greater use of sampling techniques for quality control and inspection in other areas where scrap and rework are not excessive and other controls appear to be adequate.

Elements of Control

In any system of internal control, and particularly with respect to defective work and scrap which can have an important bearing on a company's profits, the procedures established are more apt to be carried out effectively if they are reduced to writing for each department concerned. The procedures must provide adequate accounting control over the volume of scrap and rework through the measuring and reporting of the quantities and types of scrap created, the amounts of and reasons for rework required, and the physical disposition of scrap.

Defective materials and spoiled work sent to the salvage department should be accompanied by tickets or reports prepared at the point of generation. For accounting control, such reports should be pre-numbered and should show not only the quantity and description of items, but also the source and cause of rejection. After the scrap or salvage department has physically checked the quantity and indicated its disposition on the ticket, the original report should be sent to the cost department for pricing and then routed to general accounting. At the time of initial preparation, copies of each ticket or report may be directed (a) to the general accounting department for control, (b) to the production control supervisor or plant manager for information and possible investigation, and (c) to the responsible department foreman. The specific manner in which the reports are handled will, of course, depend on the nature of the company's manufacturing, salvaging and accounting routines. The important thing is that there be a report.

The detail reports of scrap and rework quantities should be summarized periodically and, where possible, related to product yield. Where there is some uniformity in the amount and types of scrap produced in particular operations, the quantities of normal or inevitable scrap and rework can usually be predetermined and anticipated. Standard factors developed and applied to production quantities can be used to check on the reported rework and scrap recoveries.

Segregation and Disposal of Scrap

It is also important to have a physically segregated salvage and scrap area and regular collection and disposal

(Continued on page 44)

News Forum

This department includes a digest of news and comment about Connecticut industry of interest to management and others desiring to follow industrial news and trends.

♦ **HARRY T. SILVERMAN**, president of the Plume and Atwood Mfg. Co., Thomaston, has announced the appointment of Thornton Q. Raney to the position of New England District Sales Manager. In his new position Mr. Raney will be responsible for sales promotion, merchandising and the development of new accounts.

He has recently been New England District sales manager for the Volco Brass & Copper Co., Kenilworth, N. J.

♦ **MISS MARY ANN PAPA**, senior at New Britain High School, has been awarded the first prize of \$500 by The Stanley Works, New Britain, in its fourth annual essay contest on the subject "The Role of Industry in the Development of America."

Miss Papa was one of four members of the senior class who won prizes for their essays in the contest. Other winners were William A. Levine, Miss Rebecca C. Zucker and David J. Ahlgren, all of New Britain.

The winning essay dealt with the importance of wood pulp as a basic industry supplying the raw material for production of numerous goods in widely varied fields.

Winners were chosen by a committee of judges consisting of Professor

Walter B. Fulghum, head of the English Department at Central Connecticut State College, Arthur E. McEvoy, managing editor emeritus of the New Britain Herald and John S. Black, Jr., secretary and general counsel of The Stanley Works.

♦ **THE LAMPLIGHTER** (Series 15,000) is a new photoelectric lighting control developed and produced by The Acme Wire Company, Utility Products Division, New Haven. The compactly designed control has an injection molded plastic cover and base to provide high dielectric strength. A series of exterior ridges makes handling easier and facilitates installation. A twist-lock base, conforming to EEL-NEMA standards, fits all standard receptacles.

Although a non-fused model is available, the control offers fuse protection in case of overloading. Protection against surges from both the line and the load is provided. In addition, the components are protected against lesser surges by a rare gas lightning arrester built into the series 15,000 control.

♦ **PAUL K. ROGERS, JR.**, president of The Skinner Chuck Company, New

Britain, has announced Skinner's acquisition of the Horton chuck line from the Geometric-Horton Division, United-Greenfield Corporation, New Haven. Horton chucks have been manufactured in the Geometric-Horton plant in New Haven.

The transaction includes the purchase of chuck trade names and trademarks, machinery, jigs, fixtures, inventory, drawings and patents of the Horton chuck line.

A major part of the Horton line includes large-size chucks up to 60 inches, and a line of electric chucks, types and sizes not manufactured by Skinner.

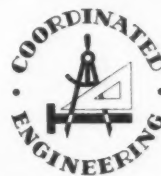
♦ **THE ARMSTRONG Rubber Company**, West Haven, has announced plans for a new \$25,000,000 tire producing plant to be built in Hanford, California. With a production capacity of 10,000 tires daily, the new plant will initially employ 1,000 workers. Eventually total employment is expected to increase to 1,600.

Complete facilities of The Armstrong Tire and Rubber Company, fifth largest producer of tires in the industry, include the main office and plant in West Haven, and three other factories—in Norwalk, Des Moines, Iowa and Natchez, Mississippi.

♦ **EXECUTIVE CHANGES** in The American Brass Company, Waterbury, have been announced by Richard M. Stewart, president.

Edward M. Bleser, secretary and treasurer of the company, has been elected to the board of directors replacing James F. Ackerman who has retired.

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Justice Lockwood, vice president in charge of sales, has been named vice president, succeeding Mr. Ackerman.

Allen W. Rockwell, vice president-New England Sales Region, has been appointed vice president in charge of sales and Carl E. Woodward, director of market planning, has been named assistant to the president.

♦ **VEEDER-ROOT INCORPORATED**, Hartford, manufacturers of computers and counting instruments, has announced that it is expanding its West Coast operations to include manufacturing as well as sales and service with the establishment of a plant located at Park Place, Glendale, California. It will be known as Veeder-Root Western.

The new plant will provide manufacturing facilities for modification and testing of mechanical and electro-mechanical counting instruments for West Coast industry.

♦ **BURNDY CORPORATION**, Norwalk, leading manufacturer of electrical connectors, has announced another step in its long-range program of broadened service to the electrical industry. The company has contracted to acquire the assets of Husky Products, Inc. of Cincinnati, Ohio.

Husky designs, manufactures and sells aluminum and steel supporting trays for supporting power and control cables in the wiring systems of electric utility and industrial plants.

♦ A NEW lift-post fixture assembly for use in a pit-type furnace has been announced by Rolock Incorporated of Fairfield.

Construction is entirely welded fabrication, using Inconel high heat-resistant alloy. The unit consists of a central lift post approximately 5 feet high with heavy supporting base, so designed that it can expand or contract under drastic temperature changes without buckling.

Work carrying baskets are of two sizes: the larger, 13" high with 1-3/8" square openings holding 64 pieces; the smaller, 7-1/2" high with 1-1/8" square openings holding 20 pieces. Grids are of special Rolock pressure-welded three-layer construction, which is claimed to achieve desired strength with minimum weight.

♦ **ARTHUR J. WASLEY**, president of Wasley Products, Inc., Plainville, has announced the appointment of Earl Van Keuren as manager of the Rubber Division of the company.

Mr. Van Keuren's post is newly created, demanded by the increasing scope of the Wasley Rubber Division's operation, rapidly increasing sales and the company's expansion plans in the

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♦ **HARCO LABORATORIES, INC.**, New Haven, has announced a new portable calibration stand which fully meets thermocouple calibration requirements of MIL-E-5009B on jet engine pre-and post-acceptance tests.

With dimensions approximating 4 feet wide by 3 feet deep by 3 feet high, the unit is available in many models, which differ only in the number of furnaces and types of readout systems used.

♦ **THE APPOINTMENT** of Chapman Berry as manager of advertising and sales promotion of Robertson Paper Box Company, Inc., Montville, has been announced by Ralph A. Powers, president.

Mr. Berry, formerly with William Zinsser & Company, Inc., New York, has been active in packaging and merchandising for the past ten years. For eight years he was associated with the Old Dominion Box Company, Inc., Charlotte, North Carolina, and its subsidiaries, the Dacam Corporation and the Valley Board Corporation.

♦ **U. S. ELECTRICAL MOTORS**, with plants in Milford and Los Angeles, California, has developed a new controlled acceleration accessory unit for 1 to 75 H.P. Varidrive variable speed motors. The control provides a soft, smooth start to minimize any sudden starts that could damage the machine being driven or the product (such as paper, plastic, or textile materials). The control would also protect equipment such as extruders where high starting torque may be detrimental to the extruding machine or the Varidrive.

To accomplish low initial torque, a reduced torque control unit is used. To suit varying load conditions and machine applications, starting torque is infinitely adjustable up to the normal rated torque of the motor. After setting the control unit for the desired starting torque, a compensator unit maintains the same approximate torque from starting to full operating speed. When operating speed is attained, the control unit is automatically removed from the circuit and the Varidrive operates normally.

♦ **THE DEVELOPMENT** of Hansonized Hi-Spi Threading Taps, recently announced by The Hanson-Whitney Company of Hartford, has proven most successful, according to B. G. Tyrrell, executive vice president.

Hi-Spi Taps are designed with a steep spiral flute and with several ex-

clusive features which make them superior in performance. The taps are said to provide positive chip removal, greater torque strength, higher tapping speeds and more uniform tapped hole accuracy.

The "Hansonize" treatment is a hard, black finish. The process has been developed during the last six months in the new Research and Development section of Hanson-Whitney, headed by Lewis H. Whitney, senior vice president.

♦ **TRAK Electronics Company**, division of CGS Laboratories, Inc., Wilton, has announced the availability of "Pre-

paring for Patent-hood," a booklet about patents for inventors and engineers.

Since the booklet first appeared in print in 1954 there has been a continuing demand for it from many sources. The booklet has just been revised and reprinted. It tells what to do with your invention idea; when to talk with a patent attorney; importance of dates and a verifier; about the patent office; application handling; revising claims; claims and patents; economic importance of patents; and foreign patents.

♦ **DURING** its first five years of op-

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eration the General Electric Foundation's Corporate Alumnus Program has produced total donations of more than \$2 million to 560 institutions of higher education, the Foundation reported.

Under the program contributions by General Electric Company employees to schools of which they are alumni are matched by the Foundation up to a maximum of \$2,000 a year per donor. Since the idea was introduced by the Foundation, 100 companies have established similar plans.

The total employee contribution of \$1,108,148, which when matched by the Foundation accounts for the \$2 million figure, amounts to an average yearly contribution per donor of about \$42 over the five-year period.

◆ WIRES and cables insulated and jacketed with new Teflon 100 FEP are now being produced by the William Brand-Rex Division of American Enka Corporation.

A new fluorocarbon resin developed by duPont, Teflon 100 FEP primary insulation and jackets offer a wide range potential for improved electrical designs, especially in high temperature fields. Brand-Rex is using it for hook-up wires, multiconductor cables and miniature coaxial cables.

◆ THE BOARD of Directors of The Ensign-Bickford Foundation, Simsbury, has announced the awarding of four-year college scholarships to Miss Jane A. Humphrey and Robert LeRoy and a two-year scholarship to Miss Rosemary A. Kuckel.

The scholarships are granted under a program of the local firm for sons and daughters of employees.

The Scholarship Committee for 1960 consisted of Dr. John S. Ellsworth, Jr., Yale University, Dean Gertrude Noyes, Connecticut College for Women and Robert E. Darling, chairman of the board of the company.

◆ THE SESSIONS CLOCK COMPANY, Forestville, has introduced the

Moon Glow electric alarm clock, with dial lighted with revolutionary new Panelescent light, said to be more visible than any other type of illuminated dial.

Undisturbing, diffused light from the surface of the dial makes Moon Glow double as a night light.

◆ ANNOUNCEMENT has been made that Chandler Evans Corporation, West Hartford, has purchased the major assets of Farmingdale Manufacturing Corp. of Farmingdale, L. I., N.Y., a research and development organization specializing in the fields of hydraulics, pneumatics and electronics.

Chandler Evans is one of the country's largest producers of fuel control systems and accessories for aircraft and missiles.

Sidney A. Stewart, Chandler Evans president, stated that his company had acquired all Farmingdale patents and special test equipment and that Farmingdale's key engineering personnel will be moved to West Hartford where further development work and production activity will be conducted.

Recent Farmingdale developments, which Chandler Evans will manufacture and market, apply to the textile, automotive and electronics industries.

◆ W. C. STAUBLE, president of Holo-Krome Screw Corp., West Hartford, has announced the appointment of Harold A. Neff to vice president and general manager. Mr. Neff had been a vice president since 1946 and a member of the Holo-Krome board of directors since 1959. He has been associated with the company since its organization in 1929.

James F. Frazer, assistant treasurer since 1956, has also been named secretary of the company. He joined Holo-Krome in 1940 following his graduation from the Bentley School of Accounting and Finance in Boston.

William McCombe, factory manager since 1955, has been named assistant

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secretary of the company. He joined the organization in 1934 as an engineer.

♦ **THE WINSTED Precision Ball Corporation**, Winsted, has begun manufacture of Grade I precision steel balls. The announcement was made by Gino A. Thomas, national sales manager.

The Grade I balls will be available in a range of sizes from 1/16" to 5/32" for use by manufacturers of automotive parts, high grade bearings and valves.

♦ **THE FAFNIR BEARING COMPANY** has announced the appointment of Dr. Simon Meleck as full-time medical director. He succeeds Dr. Bliss B. Clark, former medical director, who will continue as medical consultant.

Dr. Meleck has been engaged in general practice in the New Britain area since July 1958 and is on the staff of New Britain General Hospital.

♦ **TWO Stamford High School seniors**, Lars E. Troide and James R. Greer, have been awarded four-year competitive scholarships in the seventh annual nation-wide Pitney-Bowes Scholarship Program for children of employees of the postage meter and business machine company. Four such scholarships were awarded this year.

Each scholarship is equivalent to, on a four-year basis, up to about \$9,000, depending on the college or university of the winner's choice. The other two winners are Mary Ann Tracy of Toledo, Ohio and Dale L. McCord of Atlanta, Georgia.

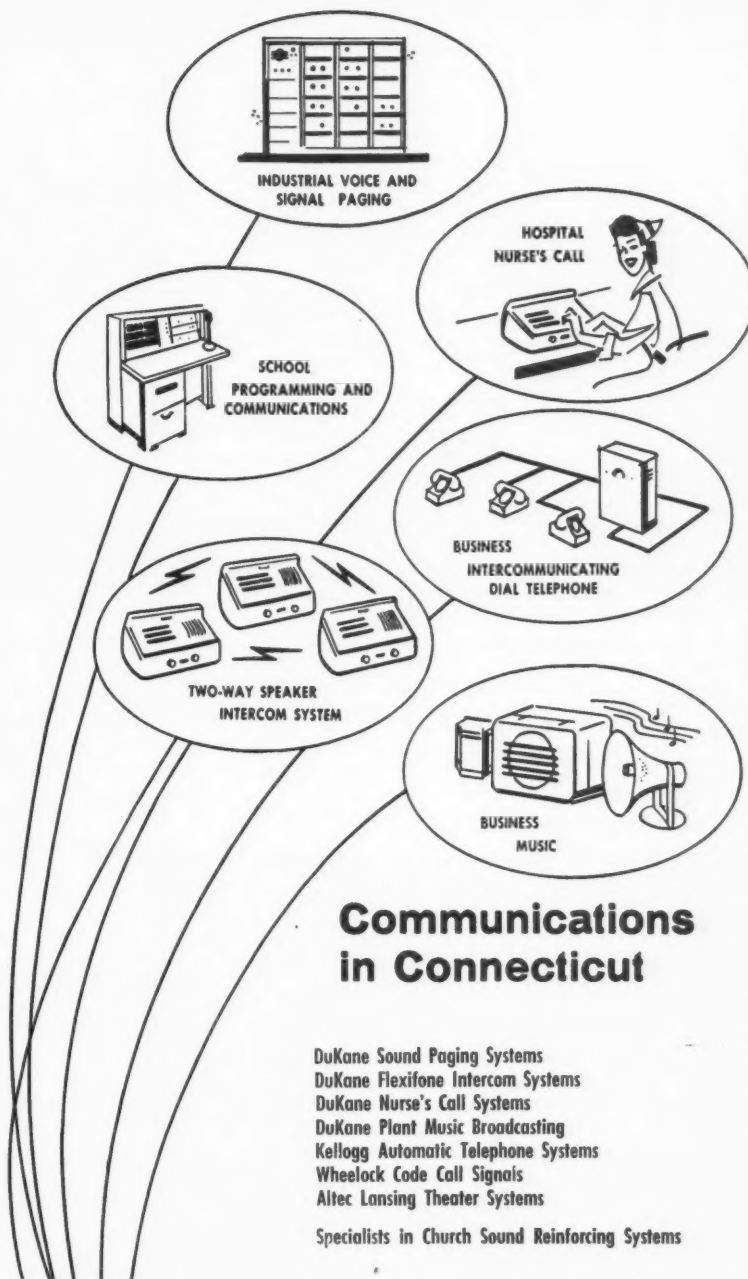
♦ **TUMB-L-MATIC, INC.**, Stamford, designers and manufacturers of tumbling equipment, is offering a new barrel finishing unit for producing fine finishes on metal and plastic precision parts.

Designated Model XLC-2120, the barrel is mounted in a rugged welded iron frame and supported in oversize bearings at each end of the shaft. The hexagonal barrel is 20" in diameter, 21" long and lined with 1/4" thick neoprene.

Barrels are supplied with two types of drives. One type involves constant speed (set to user requirements) and the other is variable in a ratio of 10:1.

♦ **ALLEN Manufacturing Company**, Hartford, has announced a new type of compact, sturdy metal workbench stand that holds 16 genuine Allen Hex Keys to fit practically all Allen Hex-Socket Screws except the very large diameters.

The No. 665 Allen "Key Island" keeps keys together and ready for in-



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stant use. All keys are made from high-grade alloy steel, heat treated for added strength and toughness.

A Key Fit Table is packed with each shipping carton and tells at a glance the correct size key for each Allen socket screw product.

♦ AN INEXPENSIVE MEANS of eye protection for visitors to industrial plants is now being produced in the form of a lightweight, all-plastic spectacle.

Manufactured by American Optical Co. in its Putnam plant, the device offers a wide area of coverage through a shield-like single lens which covers both eyes. Lenses are available in both clear and green. The cost is less than a quarter the price of the average safety spectacle.

♦ THE APPOINTMENT of Samuel Wein as consultant in the field of electroless plating and printed circuitry has been announced by Harold Leever, president of MacDermid Incorporated, Waterbury manufacturer of metal finishing chemicals.

Mr. Wein, long eminent in this field, is perhaps best known for pioneering the photo-electric effects of the metals, and restification of A. C. to D. C. of the metals and corresponding sulphides. He is accredited with more than one hundred patents, dealing chiefly with electronics, plastics, photography, chemistry and the associated arts.

♦ A "PACKAGED" electronic adjustment device, automatically compensating for buff or wheel wear in high production rate finishing operations, has been introduced by The Packer Machine Co., manufacturers of completely automatic polishing, buffing and deburring machines, Meriden. The device results in reduced wheel wear, gives a more uniform finish and lowers high compound costs, according to the manufacturer.

Called the Adjusta-Matic, the electronic device is included with all new Packer-Matic machines. It is completely and automatically controlled through ampere flow by means of a special control panel where specified limits of operation are set on simple, easy-to-read dials.

♦ JOHN F. HEGARTY has been elected vice president, marketing of National Semiconductor Corp., Danbury, it has been announced by Dr. Bernard J. Rothlein, president.

Mr. Hegarty was marketing manager of the company, directing all sales activities for National's line of silicon alloy and mesa transistors which are used in missile, aircraft and

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industrial electronic applications. Before joining National, he was eastern regional sales manager of Texas Instruments, Inc., Semiconductor Division.

♦ A NEW PARTS-HOLDING fixture, designed especially for ring shaped objects, is available from Wiretex Manufacturing Co., Inc., Bridgeport, manufacturer of heat and chemical treating baskets and fixtures.

Originally developed for clutch plates, the fixture may be used with most surface furnaces. Made entirely of Inconel, it has slotted holders, arranged in staggered tiers, to hold a workload as heavy as 400 pounds. Holders are supported by 1-1/4 inch posts supported, in turn, by a base frame made with 3/8 inch diameter rods. Holders are fitted with 1/8" thick U-rods that prevent parts from falling during handling and transfer.

♦ JAMES W. HAWTHORNE has been promoted to vice president and appointed general manager of the Haydon Division of General Time Corporation, at Torrington. Mr. Hawthorne has been serving as controller for General Time Corporation's Westclox Division at LaSalle, Illinois.

As general manager, Mr. Hawthorne will assume over-all responsi-



Louis R. Ripley (at right), president, Waltham Precision Instrument Co., which has a branch plant in Brookfield, and Forbes Morse, president, Electro-Mec Laboratory, Inc., Long Island City, N.Y., confer on plans for expansion of activities through the Waltham Company's acquisition of Electro-Mec. Mr. Morse remains as president of the latter, which designs and manufactures high precision electronic components. Waltham is one of the sub-contractors for "Project Mercury," the U.S. Government's program to send a man into space and bring him back alive.

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bility for the manufacture and sale of Haydon's nationally known lines of electric timing motors, timing devices, and clock movements.

◆ **THE FOURTH** special annual issue of *The Stanley World*, dedicated to all Stanley employees, is a resume of activities in Stanley's many plants from 1950 through 1959, along with a look into the company's future during the 1960's.

Presented in a graphic informal style, the edition carries articles by top management who discuss such questions as: What is the goal for Stanley's long range planning? How are we organizing for the future? What effect do foreign imports have on The Stanley Works and on jobs? What has the company done to in-

crease export business? Who are the company's shareowners? What new products were introduced by Stanley in the 1960's? What can employees do to make the 1960's better? How is marketing an important key to Stanley's future?

Printed in Stanley's yellow and black corporate colors, layout and copy carry out a format that is clean-cut and airy with the sole purpose of attracting the eye of the employee and getting across to him in as brief and attractive a manner as possible the elements of an annual report and ten-year review specifically designed for his interest.

◆ **SARGENT & COMPANY**, hardware manufacturer, New Haven, has announced the addition of Delrin

knobs and Fired Copper roses to the decorative trim on its full line of architectural locks.

Delrin, a new material by DuPont, offers a smooth hard surface with many metal-like characteristics. Its resistance to stain, scratch, chip, corrosion or moisture makes Delrin very desirable for hardware. The Delrin knobs are available in two designs in the choice of three colors, black, off-white or mahogany.

◆ **A TRIPLE** assault on materials handling and warehousing costs is being waged by Somers Brass Company of Waterbury, producer of thin gauge non-ferrous metals and stainless steel strip.

Using a unique coil tilting device which lifts, transports and tilts away from horizontal to vertical or vice versa in about 45 seconds, the Waterbury company reports that damages to the thin edges of coils in handling have been virtually eliminated; handling time has been reduced by as much as 90 per cent; utility of the company's existing warehouse space has been more than doubled.

The coil tilter eliminates the use of conventional lifting tongs, floor mounted tilting devices and "C" hooks for handling coils weighing up to 5,000 pounds in production operations and warehousing.

◆ **RALPH W. KINDLEY** has been appointed controller for the Stromberg division of General Time Corp., Thomaston, it has been announced by John F. Carr, vice president and Stromberg general manager.

For the past five years Mr. Kindley has been controller for the Wright Line in Worcester, manufacturers of data processing accessory equipment. Prior to joining the Wright organization, he was budget director for Kaiser Metal Products, Inc., Bristol, Pa.

◆ **SCHOLARSHIP** awards totalling \$1,000 for the 1960-61 year have been announced by Rockbestos Wire & Cable Co., Division of Cerro de Pasco Corp., New Haven.

A first-year grant of \$500 was awarded to Robert H. Wilkinson, now a freshman at Boston College and son of Mr. and Mrs. Robert C. Wilkinson, Wallingford. His father is supervisor of the sales section at Rockbestos.

A one-year renewal of a \$500 Rockbestos scholarship previously granted was made to Virginia Charlotte, currently a freshman studying to be a medical secretary at the University of Connecticut. She is the daughter of Mr. and Mrs. Donald A. Charlotte, Branford. Her father is specification engineer at Rockbestos.

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♦ A CELEBRATION recognizing the 50th anniversary of Vocational Education in Connecticut has been planned for November 10, 11 and 12 at the J. M. Wright Vocational-Technical School in Stamford.

To launch the celebration, the State Board of Education will hold a convocation on Thursday, November 10 at 2:30 P.M. On Friday and Saturday, November 11 and 12, there will be meetings under the auspices of the Connecticut Vocational Association. The Association includes instructors and administrators in vocational education and members from industry in Connecticut. Vocational educators from all the New England states, New York and New Jersey, as well as from other parts of the country, will attend these meetings. There will be exhibits from industry and education.

On Friday morning, November 11, a panel of leaders from industry, agriculture and business will discuss manpower training needs. On Saturday morning a general session will feature a nationally prominent speaker and citations will be given to Connecticut citizens in recognition of their interest and contributions to the development of industrial and vocational education in Connecticut.

♦ JAMES W. HOPPER has been named assistant to the president, according to an announcement by Jacob J. Jaeger, president of Pratt & Whitney Company, Incorporated, West Hartford.

Mr. Hopper joined the company in 1951 as a gage sales engineer, coming from Seth Thomas Clocks, a division of General Time Corporation, Thomaston, where he was a product engineer. In 1955 he was named gage application engineer, specializing in continuous gaging and automatic mill and machine control. Four years later he was made Washington representative, dealing with government business for Pratt & Whitney.

As assistant to the president, Mr. Hopper will be responsible for handling special projects and assignments coming directly from the president. In addition, he will still represent the company interests in Washington.

♦ THE AMERICAN Tube Bending Company's recently established Electronic Division, New Haven, has successfully shaped 3-1/8" Styroflex aluminum sheathed air dielectric coaxial cable meeting Space Technology Laboratories' specifications for a radio tracking assembly at the Air-Flow Kalse Field Station, Hilo, Hawaii.

The configuration enabled the use of unbroken cable running from transmitter to a 60' parabolic antenna on

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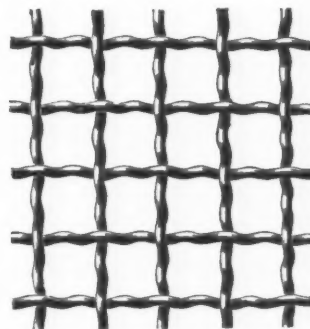
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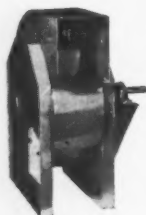
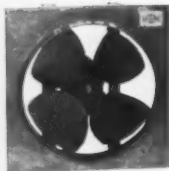
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top of the pedestal. This avoided interference with the elevating axis mechanism and resulted in a minimum of noise and static interference as the radio "ear" listens 50 million miles into space.

◆ USING A NEW, specially impregnated type of activated carbon, Dorex canister-type purification equipment, developed by Connor Engineering Corp., Danbury, is said to successfully remove troublesome hydrogen sulphide (H_2S), a gas previously impossible to control. The new carbon offers a retentivity of 30% for H_2S , compared with a previous low of 3%.

Thoroughly tested and proved, this new development has wide industrial application and is of particular advantage to paper mills, metal working plants which use cutting oil, various industrial laboratories, rayon plants, petroleum refineries, and tanneries.

◆ ELECTION of William C. Heard to the post of vice president, sales, for the Capewell Manufacturing Company, Hartford, has been announced by Staunton Williams, president. In his new position, Mr. Heard will be responsible for the overall sales promotion and planning for Capewell's complete line of industrial supplies including all metal cutting hacksaws, power saws and band saws.

He will also supervise the sales of Capewell's new line of saws manufactured from the recently developed alloy, L-100-M. In addition, Mr. Heard will continue in his present responsibility of direction of the company's national sales engineering staff.

◆ TOOLCRAFT Engineering, Inc. is the new name of The Diecraft Engineering Company, Waterbury, it has been announced by Robert E. Anderson, president.

Mr. Anderson stated that no change in management has taken place.

◆ AN EIGHT-PAGE folder (Bulletin No. 4) illustrating examples of the atomic reactor components recently produced by the Herrick & Cowell Company, North Haven, has been announced.

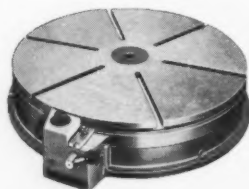
The folder illustrates graphite reflectors, instrument cans, storage racks, pool sumps, shielding plug assemblies and reactor fuel handling tools and briefly describes their construction. It also illustrates several examples of custom-built machinery, contract machining and precision Bullard work, which the company does. Copies are available from the company.

◆ VIGOROUS GROWTH of the state's power industry, with \$300 million spending in the next five years, was pledged by spokesmen for the state's utility companies at a recent news conference.

At the same time they acknowledged the need for a heavy flow of investment funds and emphasized that new power developments, including nuclear, will come gradually and not make present equipment obsolete.

Spokesmen were officers of the three top electric utilities of the state, addressing a news conference at the Hartford Club attended by some 200 persons including press and radio representatives. The speakers were William J. Cooper, president of the United Illuminating Company; Sherman R. Knapp, president of the Connecticut Light & Power Co.; C. L. Derrick, vice president of Hartford Electric Light Company and Austin, D. Barney, HELCO chairman of the board.

Mr. Cooper, speaking for the three companies, said "we expect to construct and put into operation about 870,000 kilowatts of new capacity from 1960 through 1965. To install these units and build our facilities . . . we plan to spend over \$300 million for plant and property."



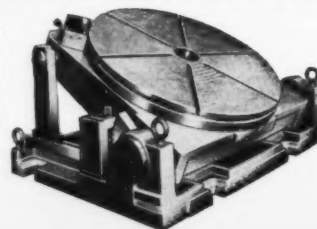
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Mr. Derrick reviewed New England's power needs for the coming 20 years and said that work at the atomic electric plant at Rowe, Mass. is now going forward at an accelerated pace. Electric power should be flowing in the lines of New England utilities early this fall, he said.

Mr. Knapp predicted that during the next 20 years more than \$143 billion will be required to supply expanded power supply systems. "We believe," he said, "that the investing public which consists of the individual investor, insurance companies, pension funds, mutual funds, etc. will continue to provide the capital."

♦ **THE "SATELLITE"** system of dictating, a compact control center the size of a microphone, which eliminates the need for having a dictating machine on the businessman's desk, has been introduced by the Sound-Scriber Corporation, North Haven.

The "Satellite," incorporating a single pushbutton to handle all dictating activities, is the hub of the company's new "Communicator" line. With the Satellite—a microphone and cradle—businessmen can dictate without having to handle the recorder, discs, indexing, and other mechanical functions. In addition, up to five Satellites can operate remotely from the same recorder, thus enabling personnel with lighter dictating loads to share in a central system.

♦ **THE EASTERN Steel and Metal Company** of West Haven, has devised a novel way of introducing a new product to its customers—print a news release on the product.

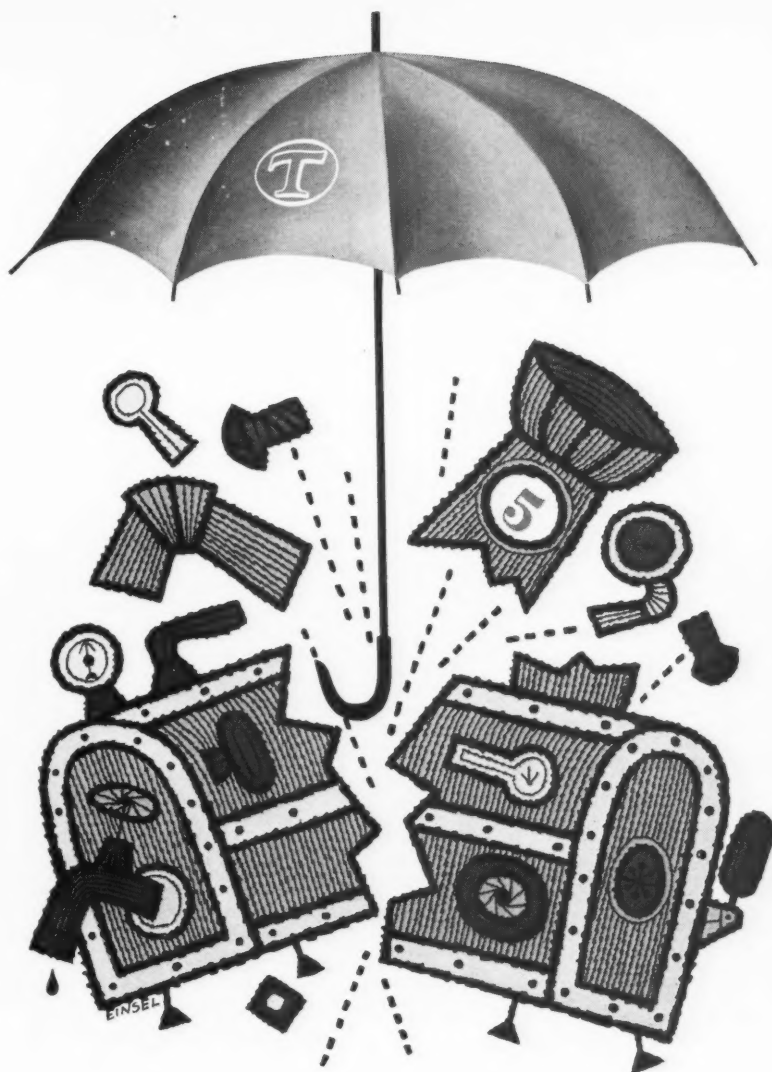
The West Haven firm introduced Revere's new Enameled Color-Clad Aluminum Sheet by printing its regular monthly news release on it and sending copies to all its customers.

Eastern Steel also used the "aluminized newspaper" to announce its enlarged warehouse facilities, to make way for its expanded aluminum operations.

Founded in 1933, Eastern Steel has grown since that time into one of the larger strip and sheet steel and aluminum warehouses in southern New England.

♦ **THE APPOINTMENT** of Robert P. Lee, area development manager of The Connecticut Light and Power Company, as assistant to Paul V. Hayden, vice president in charge of public and employee relations, has been announced.

Mr. Lee joined CL&P in 1927. He was graduated from Lehigh University in 1933 with a degree of Bachelor of Science in Electrical Engineering.



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He returned to the company in 1936 and remained until 1942 when he became superintendent of the Waterbury Buckle Company in Waterbury. He rejoined CL&P in 1951 as an industrial sales engineer and since 1952 has served as area development manager.

Active on many utility committees, Mr. Lee is chairman of the area development committee of the Edison Electric Institute, and a past chairman of the industrial development committee of the New England Council, as well as a member of the board of directors of the American Industrial Development Council.

♦ A GROWING shortage of executives has touched off a major new effort by corporations to develop their own management talent. This is evident from a survey by *Industrial Relations News*, a weekly newsletter for the industrial relations—personnel field, published in New York.

The survey indicates that 36% of U.S. corporations have formal management development programs, with two-thirds of these set up in the last three years. Some 27% are either on the verge of installing similar programs or plan to formalize their procedures in the near future.

A good many of the new management development programs are being set up on a highly individualized basis, IRN reports. They are geared to the company's present and future management needs, and the individual's specific growth requirements. This, the report states, would tend to "de-emphasize" the use of standard package training courses in specific supervisory skills, such as communications, organizational planning, and delegation.

♦ A NEW DATA CHART (Sec. F, No. 7) which covers the dimensions and weights of steel pipe has been announced by Peter A. Frasse & Co.,

Inc. Fourteen different schedules are shown—sizes range from 1/8" P.S. to 30" P.S. Stainless pipe users will find it helpful, for where the wall thickness specified for stainless pipe differs from that of carbon pipe, the data for stainless pipe is shown.

A table showing the capacity of round tanks in diameters up to 32' 9" is provided, plus an explanation for determining the capacity of larger tanks. Formulas for calculating capacities of rectangular and elliptical tanks are also included.

Copies may be obtained from the company, P.O. Box 1949, Hartford 1, Conn.

Family Day at Veeder Root

(Continued from page 11)

Employees, Departments and Operations Identified

Each Veeder-Root employee was identified with a name card. Each department and operation along the route was identified with an appropriate sign. The company's employee benefits, called Veeder-Root "extras," were dramatically portrayed along the way. Displays in various departments showed the components being handled, or assembled, and in the basement area several displays showed Veeder-Root products. Some showed how these products function in such devices as gasoline pumps which use Veeder-Root counters to compute dollars as well as gallons pumped.

Upon arrival, each visitor was greeted personally by employee hosts and hostesses, and given a welcome folder which showed the route of the tour through plant and offices. Every point of interest, a total of 158, was identified on a map. Along the way the route was carefully marked so employees' families and friends would not miss any part of the operations. Guides were also posted along the way to direct visitors and answer questions.



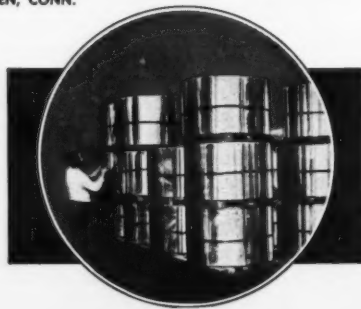
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Rest areas were located at convenient spots so people unaccustomed to walking could take time out to rest up for the balance of the tour.

Midway, a streamlined refreshment headquarters was located in the company cafeteria. Here guests were served coffee and soft drinks, and ice cream and cakes as they chatted about what they had seen, and what they were about to see.

All companies' offices were open for inspection, with company officers on hand to greet the employees' families and other guests.

In summarizing the modernization program, President Stauble said in his family day invitation letter to Veeder-Root people: "The important thing about these changes is that they are all improvements. They make our company better able to compete for orders, because we can produce better products more economically and provide better customer service. We all know the more orders we can get, the busier we will be. These changes make Veeder-Root a better place to work."

After family day, he thanked employees for their parts in the success of this event, and summarized by saying: "We really looked as good as we are."

Family days, according to Veeder-Root people, are not something which happen often, but they are very important as part of a full communications program, such as the one at Veeder-Root.

For several weeks following family day, according to Industrial Relations Director Luby, a number of job applicants mentioned that they had visited the plant, and wanted to work in "a nice place" like this. Letters flooded in from families and other guests commenting, all of them favorably, on their friendly reception and the clean, orderly arrangement of plant and offices. Said one youngster in a letter: "Dad told me it was a nice place to work and now I know it is even better than I thought it was. I told what I saw to the class."

A Hartford businessman wrote: "I was particularly impressed with the neatness and clean and shining appearance of your equipment and interior in general. I have been told by many that Veeder-Root is one of the finest companies to work for, and it is easy to understand why." Said another letter: "You are to be congratulated on your plant's orderly layout and efficient operation. I think, however, that we were more keenly interested and impressed by the friendly high class personnel and their obvious pride in showing us *their* plant and work, than in anything else."



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By George F. MacKenzie • Research Director
Chambers, Wiswell, Shattuck, Clifford & McMillan
Boston

Often a new idea or concept suffers in its formative years from a barrage of ivory tower double talk used by the more sophisticated early practitioners. Such is the case with today's "marketing concept."

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March, 1960

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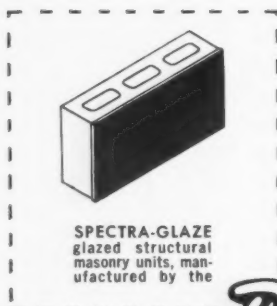
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Controlled Environment—via Structural Masonry Bloc

PROBLEM: PERKIN-ELMER CORPORATION wanted to insulate their Optical Polishing Department from other operations in their big Norwalk plant. Known for the extreme dependability of their optical and electro-optical production, they required a special precision and uniformity in finishing glass and crystal components.

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Taxation

By Charles H. Schreyer, Attorney

The States Battle For Taxes

Part I of an important story to be concluded in the August issue.

The federal government has not increased taxes since the Korean outbreak in 1950. During the same ten-year period, the states and local governments have raised their tax rates time and again and at the same time have invented an impressive array of new taxes. Despite the resulting tremendous increase in state and local tax revenues, the pressure for still more money continues unabated, so that the states have been very busy in casting about for new revenue sources.

As the tax burden on residents becomes heavier, however, the resistance of voting taxpayers to still higher impositions has stiffened to a formidable extent. This heightened resistance at home has inevitably led most of the state governments to look beyond their borders in efforts to replenish their coffers by taxing those who cannot show their resentment by reprisals in the voting booth.

There was a time when the ventures of states into this extra-territorial area were severely limited by the doctrine that no state can tax those outside its jurisdiction nor impose restrictions on the free flow of interstate commerce. In recent years, however, the changing personnel of the United States Supreme Court have displayed a more and more indulgent attitude towards states which look beyond their borders for tax resources.

Meanwhile, Congress for the most part has stood listlessly by without moving a hand to halt or slow this gradual encroachment into the interstate commerce field, a field which was entrusted by the constitution to the exclusive care of the federal government. Indeed, this inertia on the part of Congress has been pointedly remarked by the Supreme Court in case after case. Many opinions of that Court strongly imply that, not the Court, but Congress is the one to draw the line beyond which the states may not go, if such a line is to be drawn.

One of the earliest cases which marked the more lenient attitude of the Court is the *General Trading* case, decided in 1944. In that case, the Court for the first time held that a

state could require an out-of-state seller to act as tax collector of a use tax imposed on buyers within the state, if the seller sent salesmen into the state to solicit business. This case was extremely disquieting to thoughtful observers who saw beyond the door which it opened, but for two reasons the full impact of the decision was not at first generally felt.

First, retail sales and use taxes were a relatively new thing in 1944, so that enforcement techniques to take effectual advantage of the decision had not yet been developed. Indeed, there is serious doubt that even the more advanced enforcement methods of today are effectual, in the crucial test of whether they succeed in bringing in significant additional revenue beyond enforcement costs as to justify their

use. Some state tax administrators stoutly claim that they do, but over the past sixteen years, not one of them, to our knowledge, has been able to prove this.

In the second place, the *General Trading* case was discounted by some who reasoned that, after all, the decision did not sanction the imposition of a tax upon a person beyond the borders of the taxing state. The tax was imposed on the buyer within the state, and the case merely held that the out-of-state seller should help in its collection.

The march of events soon demonstrated that the worst fears of the most pessimistic were not without foundation. In 1946, two years after the *General Trading* case, the Supreme Court in a nine-word decision in the *West Publishing Co.* case upheld a decision of the California Supreme Court that that state could impose its corporation income tax upon an out-of-state corporation whose predominant, if not only, activities in California consisted of the solicitation of interstate business.

The cryptic opinion in the *West Publishing Co.* case opened an era of extreme doubt and uncertainty, an era which was marked by a tug-of-war between states which sought to im-



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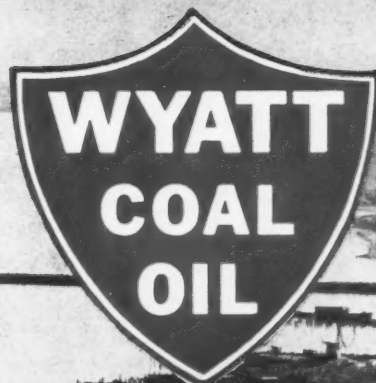
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pose their income tax upon out-of-state corporations, and a great many corporations whose officers refused to believe that the *West Publishing* case sanctioned the right of a state to tax the income of an out-of-state corporation where the *only* activities in the taxing state were the solicitation of interstate business. They reasoned that in the California case, representatives of the corporation in California had conducted a variety of activities which were not directly related to the solicitation of interstate business and that, perhaps, the Supreme Court had upheld the right of California to tax because of such additional local activities.

This was a particularly unhappy time for corporation tax people who found themselves engaged in a series of inconclusive duels with a growing list of states which enacted tax laws on the California model and insisted upon compliance by out-of-state corporations doing only an interstate business in the taxing state.

Sometime in 1955 or 1956, the business community decided that the growing pressure was becoming intolerable, and that a court decision should be sought which would dispel the uncertainty. Accordingly, about that time the Stockham Valves Co., an Alabama corporation, began a court action challenging the right of the state of Georgia to impose its corporation income tax upon an out-of-state corporation whose only activities in Georgia consisted of the maintenance of a sales office from which salesmen solicited orders from Georgia customers which were approved or refused at the home office in Alabama, and, if approved, were filled by interstate shipment from Alabama directly to the Georgia customers. Coincidentally, the same issue was raised by the Northwestern Portland Cement Co., an Iowa corporation, which challenged the right of the state of Minnesota to impose its corporation income tax upon an out-of-state corporation in the same circumstances.

The uncertainty on the question was confounded when the Supreme Courts of Georgia and Minnesota reached exactly opposite conclusions as to the constitutional right of a state to tax the out-of-state corporation. The Georgia Supreme Court held that the interstate commerce and the due process clauses of the United States constitution forbade the state of Georgia to tax Stockham Valves, while the Minnesota Supreme Court found to the contrary. Both cases were appealed to the U. S. Supreme Court about the same time, and both were argued and decided together.

In its decision handed down on February 24, 1959, the Supreme Court

unreservedly upheld the right of a state to tax an out-of-state corporation maintaining a sales office in the taxing state, even though the corporation's sole activities in that state consisted of interstate commerce, provided the tax was levied on only that portion of the corporation's income which was fairly attributable to business in the taxing state, and there was no discrimination between the method of taxing such corporations and others.

However, the decision of the Supreme Court was so broad as to seem to sanction the imposition of a tax on interstate business even in cases where no office or place of business is maintained in the taxing state. The court said that all that was necessary to sustain the tax is that the activities in the taxing state should form "sufficient nexus to support" the tax.

This language sent thousands of lawyers scurrying to their dictionaries, but aside from learning that "nexus" means connection, tie or link, they found themselves completely in the dark on the answers to such critical questions as whether the Court would find that sufficient "nexus" to support a tax exists where an out-of-state corporation has no connection with the taxing state except the employment of traveling salesmen or the use of independent sales representatives to solicit orders for interstate shipments. In other words, the Court had removed one area of doubt, only to replace it with a much broader one.

In this department next month, we will discuss the steps taken by leaders of the business community to halt the juggernaut of indiscriminate multiple state taxation which would inevitably bear down upon them as a result of this decision, unless something was done to check its advance. We will also discuss the ominous developments in this area which have occurred since the Court's decision in the *Stockham Valves* and *Northwestern* cases was handed down.

Jobs For The Handicapped— Passports To Dignity

(Continued from page 14)

insurance rates if they hire the handicapped. The committee also found that "There is no significant difference between the voluntary quit rate of impaired workers and other workers. Impaired and unimpaired workers have about the same absenteeism records." The final statement of the report reiterates the fact that "The handicapped have the same wide range of skills, abilities, and interests as the non-handicapped."⁶ The handicapped are thus proven to be able and willing to work.

Work, the producing of something with the hands or mind, is necessary to human existence, not only from a material, but also from an emotional and mental standpoint. Man was created to till the soil,¹ and commanded to earn his living in the "sweat of his face."² Mankind has never been able to live at ease for long. Dependence upon another causes a sense of shame in a man—self-shame. When that man can work, and do a job well, he gains a feeling of dignity, a feeling that he is worthy of life.

The employer, too, benefits from the hiring of the physically handicapped. In the face of facts proving that he has nothing to lose financially by employing impaired workers, the only major reason left is that of prejudices and discrimination. We here in the North are shocked at the Southerners' racial prejudices, and preach against religious discrimination, but we are not entirely without fault ourselves. Those who wish to be truly God-like make no difference between persons. "Ye shall not respect persons in judgement; but ye shall hear the small as well as the great."³ Is there no difference between a man with an artificial hand and a man who is physically perfect? Is there no difference between a woman who has a record of tuberculosis and one who has "never been sick a day in her life"? Is there no difference between the boy with the twisted legs and the one who stands so straight? No, there is no difference: no difference as far as the ability and interest to work is concerned, no difference in proneness to accidents, no difference in reliability. When he realizes this, an employer elevates himself. By conquering prejudices, man also elevates himself to a new level of dignity in the eyes of others. There are always those who point and frown at one who does "unusual" things. These are the people who oppose minor reforms and changes in government and education, the ones who dislike modern art and progressive jazz because they are new things. But there are many more people who rejoice that someone had the courage to lead a movement that they speedily join. So often people talk about this and that reform, and say it should be done, but they are never willing to start it.

Dignity, then, is gained on both sides. The employee finds labor even more important to his soul than to his stomach. The employer finds he has gained new status in the community, and new pride in himself. Hiring the handicapped is never one-sided.

¹"Key to Independence"
²Genesis 2:15
³Genesis 3:19
 Deuteronomy 1:17

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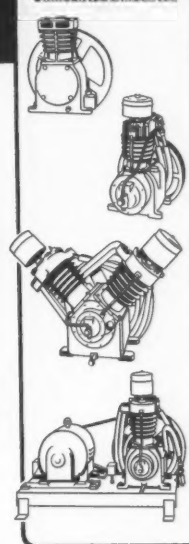
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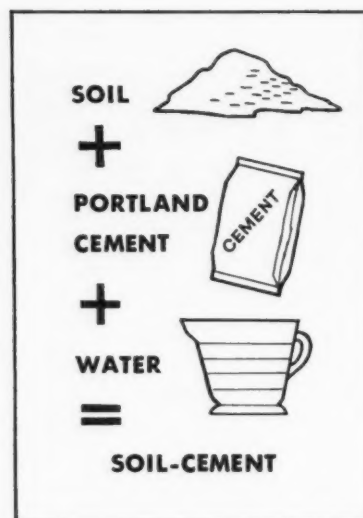
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Public Relations

By Charles E. Reiche
Public Relations Director

P R Planning and Budgeting

♦ OF all the trades and professions, public relations is one which is subject more than most to second-guessing. A curious item but one recognized long since by PR operatives as a fact of business life.

Presumably it stems from the belief in their own personal or public relationships which successful management men develop as they climb the corporate organization chart. Although top management quite generally tells middle management what it needs and expects from them and then turns them loose, public relations seems to be an area in which all hands feel a measure of competence, or at least have a definite and individual approach.

This undoubtedly derives from each individual's own reaction to a news item or a statement made by someone else. If the item strikes the reader favorably or unfavorably he instinctively feels it will develop the same reaction in other readers or listeners. And who can say he is wrong?

However, trained PR people believe their experience and training gives them a better insight into the reaction of the majority of readers, even though they admit the reactions will not necessarily be uniform or identical. And since it is the effect on the greatest number which is the measuring stick, successful public relations people develop an "objective reaction" personality in creating or analyzing their work.

When we turn to the necessity of budgeting public relations in industry we find that management is completely lost. In fairness, it should be added that the same statement more often than not applies to the PR director. But there is a reason for this situation.

By its nature, public relations is one of the most inexact sciences of all. Couple that with the fact that budget-making itself is fraught with exasperating guesswork and other intangibles and it's no wonder that tough-minded and practical management men regard a PR budget pro-

posal as a fog-shrouded course in sorcery.

Accepted standards of budgeting are likely to be discarded in a hurry when we tackle a PR budget. To begin with, the fact that Zeugma Inc. spent \$15,000 on PR in 1960 has little or no connection with what it may spend in 1961. In 1961 Zeugma Inc. may hold a family open-house or dedicate a new research laboratory. Either of these projects by themselves can easily eat up \$15,000 and more.

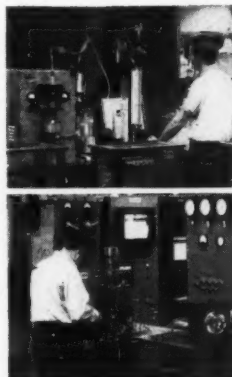
Briefly, then, aside from your basic PR department administrative costs—salaries, travel and other funda-

mentals—you cannot base a PR budget for one year on what you have done in past years.

Part of the answer—but only part—to the development of a realistic PR budget lies in the skill with which you plan your PR program plus your flexibility in allowing for emergencies. This flexibility is very important and can make the difference between getting through a fiscal year without ulcers, or having the situation deteriorate into a thorough shambles. The key to this flexibility is your ability to make management see that contingency cash must be available when, as and if the PR operation of the company needs it.

Generally speaking (and with good luck on your side), you can plan in advance 90 per cent or more of the projects you will undertake in a given year and thus provide for them in your PR budget. It is most unlikely, for example, that your company will come up with a new and unexpected scholarship program without substantial prior planning and warning, or that your firm will go into an involved and expensive community relations operation on the spur of the moment.

Thus when you prepare your budget you should list A, B, C and so on as what you propose to do in the coming fiscal year and what you anticipate



LAB ANALYST (top) operates a carbon determinator for checking carbon content of bearing steel. Bottom, technician tests ball life with ball fatigue testing machine.



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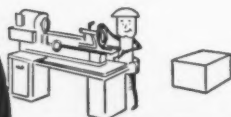
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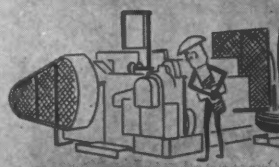
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each item will cost. With many of your proposed projects you can come very close to what the cost will be. Either you have done things like them before or you know people in your area who have done them who will give you a firm idea of what the costs will run.

There will probably be new projects which you want to undertake and for which you have no gage for measuring costs. To the extent you can, you should break down the elements of such projects and try to reach a sound cost estimate by adding up what you think the costs of all the elements will be.

You can reach an educated guess, for example, on printing costs, paid advertising space and time, if that is called for, extraordinary out-of-pocket expenses which may be involved, entertainment and so on and on through whatever the range of the project. When the bills are finally paid, you may discover your original estimate was unsound by as much as 50 per cent, one way or another. But that merely underlines the fact we acknowledge to begin with: that PR is not an exact science.

We hope what has been said above is not to be construed as applying only to our large industries. Public relations, as has been said over and over and over, is something we *all* have, whether we want it or not. If you're a three-man shop in Cornwall, you have public relations. You have your employees, you have your customers, you have your neighbors, you have your suppliers. These are all publics. You may, without realizing it, spend \$500 a year in one way or another on these publics. You may wine and dine a customer, you may contribute parts and labor to the diving float at the town swimming pool, you may give your two-man staff a Christmas bonus or a dinner party.

Whatever it is you do for others, you are running a PR program, whether or not you think of it in those terms. Thus it will be wisest for you to determine each year when you make up your whole budget to give thought to what you will include as public relations expenditures. But even in the three-man shop in Cornwall, you may well find that after you have used up your \$500 PR budget—although you may call it something else—you will have to spend another \$100 for a community emergency or aid to a supplier before your fiscal year is over. It's things like this which make PR an inexact science. But with a plan to begin with you can budget your PR needs reasonably accurately, whether you're in Cornwall or Detroit.

CONNECTICUT INDUSTRY

Business Tips

Standardization—An Effective Tool of Purchasing Management

By T. K. Lindsay
School of Business Administration
University of Connecticut

Introduction

♦ **STANDARDIZATION** often provides the answer for the purchasing executive in his search for maximum *value* and *right quality* in selecting materials and products. He can often utilize standardization to obtain such value and quality without incurring unnecessary costs and without engaging in lengthy negotiation. Reliable studies show: (1) that many manufacturing enterprises spend in excess of 50 per cent of their sales dollar for purchased items, and (2) that a 10 per cent reduction in the cost of these materials will frequently yield the profit equivalent of a doubled sales volume or as much as a 100 per cent increase in net operating profits. Standardization is one of the important cost-reduction tools commonly used to achieve impressive buying economies. The purchasing group generally has a key assignment in any standardization program regardless of the size of the manufacturer.

Meaning of Standardization, Standards, and Simplification

Standardization is generally referred to as the process of establishing an agreement upon such things as definite quality, size, type, model, design, grade, brand, and procedure. The thing standardized or the established agreement becomes the standard. Simplification is the process of reducing unnecessary varieties as regards quality, size, type, and the like. A sharp distinction may be theoretically drawn between standardization and simplification, while in practice simplification is usually an essential part of a standardization program. Today, an effective standardization program involves the utilization of the simplification process, as well as value analysis techniques.

Where May Standardization be Successfully Applied

Although standardization has been

effectively applied in manufacturing, engineering, marketing, storekeeping, and in other general operations of companies, the main focus of this article is on the purchasing function in manufacturing enterprises. Some of the more fruitful areas for the application of standardization include:

1. Stocking larger quantities of fewer varieties.
2. Economic ordering quantities.
3. Increasing flexibility of inventory.
4. Reducing lead and procurement time.

5. Reducing negotiations arising from misunderstandings in ordering description.
6. Reducing loss from scrap and obsolescence.
7. Decreasing paper work in ordering items.
8. Developing broader competition among suppliers.
9. Achieving lower prices.
10. Promoting interchangeability.
11. Improving availability and delivery of materials.
12. Reducing the ordering of specials.

Certain analyses indicate that in most companies, the placing of an order for standard materials costs only about 1/4 to 1/3 as much as placing an order for non-standard items. One company has estimated that it has obtained eight dollars in savings for every dollar invested in standardization. Another company has indicated that one dollar saved in buying materials and services creates the same profit before taxes as does five dollars of additional sales. A manufacturer has reportedly reduced its threaded hardware from 24,000 to 315 items and obtained accompanying economies amounting to \$250,000. Many other examples of dramatic savings which

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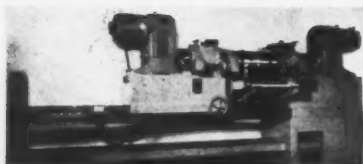
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have been secured by standardization are too numerous to recapitulate in this article. It should be pointed out that the exact amounts saved through standardization are extremely difficult to measure.

The purchasing agent is at the focal point where his company's money is being spent. He occupies a key position for generating interest in standardization and for reducing unnecessary variety by advocating proper simplification. He is involved not only in the exchange of money for goods and services, but he creates good will for his company. This description of the role of the purchasing agent is not intended to imply that other company executives do not play an important part in standardization. A successful standardization program requires the coordination of the efforts of all pertinent personnel.

Suggestions for Establishing a Standardization Program

The approaches involved in the establishment of a standardization program will vary with each company in accordance with its size, organization, and operations. In formulating a standardization program, the purchasing agent can obtain much valuable information from a publication entitled, *STANDARDIZATION MANUAL*, Revised Edition, which is published by the National Association of Purchasing Agents, 11 Park Place, New York, New York. The standardization program which is herein suggested has been formulated according to certain instructions contained in the foregoing manual. Although each company should formulate its individual standardization problem, experience has shown that some steps are probably common to most enterprises. These steps include:

1. Analyze the purchasing function to ascertain the status of standardization. The amount of money spent for purchased items should be determined as well as how effectively the money is spent. An analysis of purchase orders may help furnish the clue as to what proportions of purchased items have been or should be standardized. Look particularly for unnecessary variety and duplications of the items ordered by determining how much of the same material has been purchased by using different specifications for similar requirements. Concentrate on those materials and supplies on which a significant amount of money has been expended and on which standardization may reduce costs and confusion. Many companies have initiated a standardization program by first concentrating on an analysis of MRO items such as lubricants, packing,

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2. **Obtain the support of top-management.** The success of any standardization program is largely dependent upon the degree of support given by top-management. The purchasing agent has excellent opportunities for showing management the need of standardization. He has available a considerable amount of tangible statistics showing the effectiveness of standardization in the form of inventory turnover data, machine downtime owing to lack of materials, cost of non-standard material, among others. To convince management of the need for standardization, these statistics should be presented in terms of dollars-and-cents. A formal letter or directive which signifies management's support and which is sent to all interested groups is generally effective in publicizing the standardization program, its objectives, and its expected accomplishments.

3. **Prevail on top-management to appoint a standards committee.** This committee should be composed of representatives from top-management, purchasing, engineering, design, manufacturing, stores, research, and pertinent using departments. Ideally, in small companies, a person from the top-management group or the second ranking executive should be the chairman. In larger companies, the departmental representatives from engineering, standards, or purchasing may effectively serve as the chairman. Some companies have a rotating chairman to secure wider participation and interest in the program. The standards committee should survey all areas of company operations and apply standardization techniques to the more obvious areas where significant dollar-savings can be quickly realized.

4. **Establish policies and define long-term and short-term goals.** Top-management has the responsibility of establishing policies which will define various goals or objectives. Such goals should be related to the analysis performed in step 1 of this standardization program. Insofar as practicable, the primary goals of standardization should include: (1) saving on costs, (2) improving the service of supply, (3) routinizing previously-solved problems, (4) eliminating the need for new decisions, (5) simplifying operations, (6) insuring uniformity of quality, and (7) using previously-developed industry and national standards. Some companies compile a list indicating various areas of potential savings with appropriate time-tables for completion dates. Frequently, standard stock catalogs or other similar reference guides are particularly helpful in attaining the goals

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of standardization. Educational programs are also helpful in securing the co-operation of personnel affected by standardization programs.

5. **Assign responsibility for the standardization program.** Responsibility for the standardization program should be delegated to one person who is responsible for heading the entire standardization program as well as integrating the various activities which are relevant to its success. Such a person should be one who is familiar with the various aspects of the company's operations.

6. **Obtain company-wide participation.** Sub-committees may be utilized to obtain wider participation of company personnel. These sub-committees will very likely be composed of persons with other primary functions, but who are selected because of their qualifications and interests in standardization. Each sub-committee may be assigned one class of material for review and study. Increased participation may also be achieved by making standardization procedures known through newsletters, instructions, bulletins and reports. Better participation can be secured if the standardization program is continuing, deliberate, and organized. If dramatic results are publicized, a contagion may develop which will induce other persons to become interested in a standardization program. Awards for successful standardization ideas may also stimulate increased interest in the program. Wider participation may be obtained by facilitating the use of standards. As mentioned in step 4, a standards catalog has often proved of value in securing participation from almost every using department of the company. The format of this catalog should be conducive to use by having adequate indexing, by keeping it as

brief as possible, and by making provisions for changes or additions.

7. **Measure the results of the standardization program.** Management should appraise the standardization program to determine whether the cost of the program has been worthwhile. Expenditures of effort and money should be compared to any savings in purchasing activities. The measurement of the results of a standardization program is a complex task. It is not too difficult to obtain cost-saving data for many direct and indirect materials with respect to savings of product-costs, quality, and quantity; however, it is particularly difficult to evaluate the impact of a standardization program on the business or on the long-run profits of the firm. Whenever possible, the standardization program should be appraised in terms of dollars and cents savings.

8. **Sources of information on standardization.** In general, the purchasing agent may obtain information about standardization from (1) his own company's studies and analyses of purchasing, (2) private agencies—including vendors, users, trade associations, and professional societies, and (3) government agencies. One of the most valuable sources of information is the American Standards Association, 70 East 45 Street, New York, New York. This association is composed of approximately 100 member bodies including the National Association of Purchasing Agents. The previously mentioned NAPA Standardization Manual contains most of the pertinent sources of information on standardization which would be extremely useful to the purchasing agent. In addition, this manual contains an extensive list of publications written on the subject of standardization from the point of the purchasing executive.

Conclusion

Like any other managerial tool, standardization is not intended to be a panacea. If properly utilized, standardization can become a shorthand means of communication between a buyer and seller with mutual benefits to both. These benefits often take the form of dramatic cost reductions. On the other hand, if carried beyond the point of diminishing returns, standardization can become too costly and yield an adverse impact on the business enterprises. The purchasing agent plays a major part in any standardization problem and can achieve savings or losses, according to the manner in which he applies standardization.

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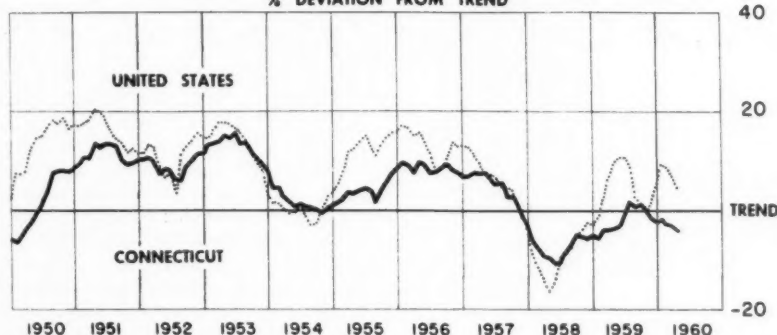
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Business Pattern

A comprehensive summary of the ups and downs of industrial activity in Connecticut for the thirty day period ending on the 15th day of the second previous month.

State and National Business Lower

INDUSTRIAL ACTIVITY - CONNECTICUT vs. UNITED STATES
% DEVIATION FROM TREND



◆ THE Connecticut Index of Industrial Activity declined almost a full percentage point in April to -4.0%. With better weather, construction employment moved up somewhat from last month. However, declines in manufacturing employment, average hours worked and electric power sales were enough to pull down the combined Index.

The United States Index fell 2.5 percentage points as steel production continued to decline.

The present situation nationally, though still mixed, appears to have settled somewhat in recent weeks. While steel output continues to decline, other indications are more favorable. Personal income and employment rose strongly in April and industrial production, as measured by the Federal Reserve Board, held level after two months of decline. Automobile production in May was up.

Unemployment

In April, better weather helped bring about a falloff in unemployment both in Connecticut and the United States as a whole. A pickup in construction activity brought a moderate cut in this state's jobless total. Increases in construction and retail trade contributed to a substantial unemployment drop nationally.

Connecticut jobless in April totaled 60,800 which was 5.7% of the labor force. A year ago, our ratio was 6.9% and in April 1958 it stood at 9.1%.

Each of these rates is higher than the national one for the same date. The gap, however, has narrowed considerably in the past year.

As would be expected, unemployment in all our labor market areas is lower than in April 1958. The situation is better than a year ago in all but two areas and in these it has worsened only slightly. The industrial expansion in the New London, Norwalk and Stamford areas shows up in their jobless percents which are the lowest in the state.

Although comparisons of unem-

ployment with one and two years ago are generally favorable, there is still a high level of joblessness. Both the Connecticut and United States rates remain substantially higher than they were before the 1957-58 business decline.

Building

Total building contract awards were up slightly in the first quarter of 1960. Nonresidential contracts bettered the first three months of 1959 but were below the same period of 1957 and 1958. Residential floor space awarded was the highest for any first quarter since 1956.

The local strength in residential building was contrary to the national situation. For the United States as a whole, first quarter housing starts were down 17% from the same months of 1959. In Connecticut, the number of dwelling units contracted for was up 22%. This was the largest first quarter total in ten years and reflects the greater activity in apartment house construction.

Employment

The accompanying chart shows long-range changes in the manufacturing portion of non-farm employment. Connecticut is compared with nearby states and other highly industrialized areas.

The proportion of manufacturing employment has gone down since 1951 in all the areas shown. These declines reflect the continuing introduction of labor-saving machinery and methods as well as the loss of some industry to foreign countries and less industrialized states. A number of southern and western states, not charted, have shown increases since 1951.

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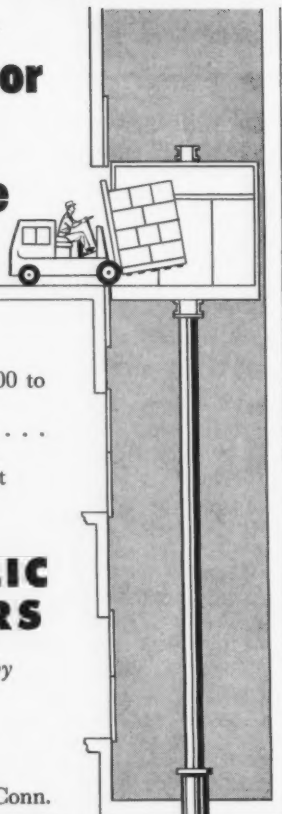
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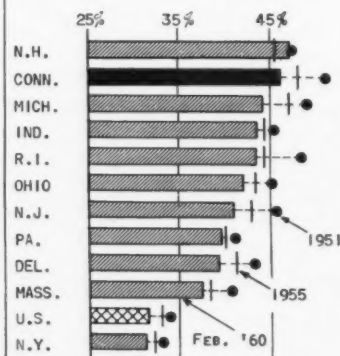
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MANUFACTURING EMPLOYMENT As a % Of Non-Farm Employment



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Although the proportion of manufacturing employment has decreased, total non-farm employment has expanded. Retail and wholesale trade, the many service industries, and government employment have more than filled the gap left by the declines in manufacturing.

Gross National Product

The United States economy passed a milestone in the first quarter of this year. Gross National Product rose to an annual rate of \$500.2 billion, topping the half-trillion mark for the first time.

The first quarter increase in GNP totaled \$16.7 billion on an annual basis. Of this rise, inventory rebuilding after the steel strike accounted for almost \$8 billion. As the accompanying chart indicates, inventory changes contribute significantly to fluctuations in total output.

While inventories are not now excessive in relation to sales volumes, inventory accumulation will probably add little to GNP in the remainder of 1960. Thus business will not have heavy stocks to work off if sales should decrease.

Present expectations are that 1960 GNP will be around \$508 billion. This would represent a 6% increase over last year's \$479 billion.

The Importance of Scrap Control In Reducing Costs

(Continued from page 16)

procedures. All spoiled material should be sorted and classified on the basis of the ultimate disposition expected.

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Some may be reclaimed and returned to stores, some may be profitably reworked into saleable products, and other portions will ultimately be disposed of as scrap. In deciding whether to rework or scrap, consideration should be given to cost and production requirements as well as to the condition of the material.

The procedures must provide physical control over quantities of scrap and other property leaving the plant. This is an area of control which is too frequently only marginal or even nonexistent. All scrap should be weighed or measured in some manner at the time of its removal from the plant, and all disposals should be reported direct to the accounting department for control over billing and receipt of payment. In instances where it is necessary to use the purchaser's or public scales, the disposal system must provide a means of assuring that reported weights are proper. Control over disposals is usually more effective when the company premises are surrounded by fences and have attended exits. Under these conditions a gate pass procedure can be adopted utilizing weight tickets or other written authorizations which can be turned over to the accounting department and used as a check on scrap and other property disposals.

Dollar Realization

In addition to adequate physical control over scrap, the procedures established should emphasize the importance of and provide methods for obtaining maximum dollar realization. More dollars can be obtained from scrap that is properly classified and segregated by basic material content and is relatively free of contamination. There is a large variety of specialized equipment for reclaiming and conditioning scrap, such as pressing and baling machines, centrifugal machines for removing contamination, etc.—all of which can help add to the sales realization value. However, the relationship of sales value to handling costs must not be overlooked.

Every means of using the rejected materials should be considered in order to avoid dollar loss through the sale of good, usable materials as scrap. On the other hand, no rework should be authorized without first considering production requirements and relating the rework costs to realizable values. There is always a possibility that rework cost when added to costs already incurred may exceed the product value recovered. In other words, more profit may be realizable or less loss incurred if the defective item is sold as a second or scrapped.

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ceiving the highest possible prices for its scrap, it is essential that relatively frequent competitive bids be obtained from appropriate, qualified scrap dealers. Consideration should also be given to the possibility that the vendor from whom the material was originally purchased might offer a better price than a scrap dealer. In any instances where scrap has resulted from existing defects in purchased materials, every effort should be made to obtain full credit from the vendor.

Trash and waste disposal, as distinguished from the sale of scrap, should also be contracted after competitive bidding. However, realization of cost savings in this area must, by and large, come from control of the amount of waste since waste usually has little residual value. In this connection, a specialist in the business forms industry recently estimated that about half of the dollars spent on paper work in business is wasted due to inefficient use, design and duplication.

Summary

Protection against losses arising from scrap, spoilage and rework must, for the most part, be provided through the company's accounting procedures and controls. The recognition of individual responsibilities and the coordinated efforts of all departments in a constant study of the causes of scrap and waste can do much in eliminating the causes and reducing this costly expense. A review of scrap procedures and controls by an alert person who is reasonably familiar with the industry and the company's own production processes may well present many opportunities for dollar savings. The old adage "a dollar saved is a dollar earned" was probably introduced before income taxes, but it is still true for a "dollar saved" by a company is as good as any other dollar earned.

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Spotlight on the Future

Contributed by National Association of Purchasing Agents
By Chester F. Ogden, Manager of Purchases
The Detroit Edison Company

General Business Conditions

♦ THE year 1960 looked better in 1959 than it does after five months of 1960. This, in itself, is no startling pronouncement, because few would argue this point. It is significant, however, that a large group—39%—of our members report that, to date, 1960 has completely measured up to their expectations. A small minority of 8% say it actually exceeded their expectations, and 53% say that it failed to meet their earlier predictions.

In view of the diminishing optimism about current business conditions, the critical question is "what is the trend likely to be for the balance of 1960?" Our members do not look for any serious slump. In fact, 47% believe the second half of 1960 will be better than the first half, 39% see no change, and only 14% predict it will be worse.

However, this improvement will evidently have to occur without the benefit of any inventory build-up program, for 36% of our members say they have definite plans to further reduce their inventories. Only 6% state that they will increase their stocks on hand.

In looking at this month's statistics,

Composite opinion of purchasing agents who comprise the N.A.P.A. Business Survey Committee, whose Chairman is Chester F. Ogden, Vice President, The Detroit Edison Company, Detroit, Michigan.

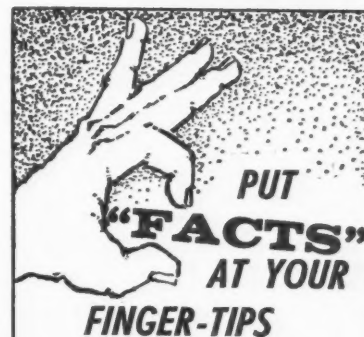
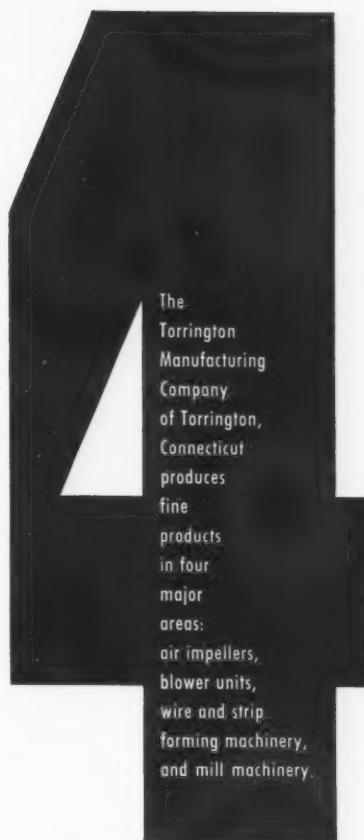
we find that both production and new orders have deteriorated in the last 30 days. Only 18% of our members say their production has increased, while 22% report reductions. Not since the Spring of 1958 have our production figures been so bearish. The new order situation has also worsened in the last month, with 24% reporting improvement, 49% no change, and 27% a reduction.

The employment figures continue to be depressing, with the number of members reporting fewer employees more than twice as many as those who tell of additions to their work force.

Over-all prices continue to be stable; but, there are more and more instances of competitive situations that result in discounts from so-called "book prices."

Foreign competition is receiving greater recognition. There are some who strongly favor foreign buying, and others who violently oppose it; 12% of our members say foreign sources will become more important in their buying activity for the balance of this year, and 8% state they will reduce their purchases from abroad. The large majority—80%—do not plan to alter their present policy.

Caution is the watchword in buying policy. With the ready availability of all materials, Purchasing Executives
(Continued on page 64)



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CONNECTICUT INDUSTRY

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PRODUCTS AND SERVICES

THIS department, formerly listing only products made in Connecticut (from 1937 through 1959) is now available for listing not only products made in the state but also services available to industry through management, technical, research or other service organizations located in Connecticut.

Listing rate, \$6.00 per listing for 12 monthly insertions, effective with the February 1960 issue. Listings are payable annually, in advance, or within 30 days after their first insertion.

Abrasives		Aircraft Engine Timing Tools		Aluminum—Sheets & Coils	
Fuller Merriam Company The (Vitrified, Resinoid Bonded Grinding Wheels & Segments)	West Haven	Gabb Special Products Inc	Windsor Locks	United Smelting & Aluminum Co Inc	New Haven
Abrasive Adhesives		Aircraft Engine Details		Aluminum Windows	
Scovill, Inc., D & H (for polishing metals, etc.)	Higganum	American Standard Products, Inc.	Hartford	Norlee Aluminum Prod Corp (combination and prime)	Bloomfield
Absorbents		Hartford Machine Screw Co Div of	Hartford	Ammunition	
Nielsen & Sons Inc. John R. (oil water and grease)	South Windsor	Standard Screw Co	Hartford	Remington Arms Co., Inc.	Bridgeport
Accounting Forms		New Haven Trap Rock Co The Machine Products Div	North Branford	Winchester-Western Div Olin Mathieson Chemical Corp	New Haven
Baker-Goodyear Co The	Branford	Tag Alloy Welding & Mfg. Co., Inc. (weldments)	Glastonbury	Anodic Coating	
Accounting Machine Cards		Aircraft Engines		Fenn Mfg Co The (Dow 17)	Newington
Connecticut Printers, Inc.	Hartford	Lycorning Division Avco Manufacturing Corp	Stratford	Anodizing	
Adding Machines		Pratt & Whitney Aircraft Div United Aircraft Corp (aircraft)	East Hartford	All-Brite Chemical Corp.	Watertown
Underwood Corporation	Hartford	Aircraft Fasteners		Aluminum Finishing Co	Bridgeport
Adhesives		American Standard Products, Inc.	Hartford	Contract Plating Co., Inc.	Stratford
Polymer Industries Inc	Springdale	Hartford Machine Screw Co Div of	Hartford	Leed Co The H A	Hamden
Raybestos Division Raybestos-Manhattan Inc	Bridgeport	Standard Screw Co	Hartford	Stamford Polishing & Plating Corp.	Stamford
Advertising Mats		Scovill Manufacturing Company (PANELOC Aircraft Fasteners)	Waterbury	Anodizing Equipment	
Ads Inc Div CSW Plastic Types Inc (plates, services)	Rocky Hill	Aircraft Instruments		Enthone Inc	New Haven
Lockwood Sons Inc Wm H	Hartford	Aeronautical Machinists, Inc. (servo mechanisms & pressure switches)	Bridgeport	Asbestos	
Advertising Agencies		Gorn Electric Company Inc	Stamford	Auburn Manufacturing Company The (gaskets, packings, wicks)	Middletown
Brunelle Co. The Charles	Hartford	Lewis Engineering Co., The	Naugatuck	Asarcon Bronze	
Jimford Advertising Agency	Durham	Aircraft Nuts		Derby Castings Company The	Seymour
Langler-Stevens, Inc.	Orange	McMellon Bros., Inc.	Bridgeport	Knapp Foundry Company Inc (bushing & bearing stock)	Guilford
Moore and Co., Inc.	Stamford	Aircraft—Repair & Overhaul		Assemblies—Small	
Robotham Co., The Edward W. (industrial)	Westport	Airport Department Pratt & Whitney Aircraft Division	Rentschler Field East Hartford	American Standard Products, Inc.	Hartford
Shenton Co., K. C. (industrial marketing)	Hartford	Aircraft Studs & Bolts		Barnes Co The Wallace Div Associated Spring Corp	Bristol
Advertising Plates		American Standard Products, Inc.	Hartford	Greist Manufacturing Co The	New Haven
Lockwood Sons Inc Wm H	Hartford	Hartford Machine Screw Co Div of	Hartford	Hartford Machine Screw Co Div of	Hartford
Advertising by Representation		Standard Screw Co	Hartford	Standard Screw Co	Hartford
Hartz-Miller Associates	Meriden	Aircraft Wire & Cable		Stanley Humason Inc	Forestville
Air Compressors		Lewis Engineering Co., The	Naugatuck	J H Sessions & Son	Bristol
Spencer Turbine Co The	Hartford	Aircraft Test Equipment		Audio-Visual Equipment	
Air-Conditioning		United Manufacturing Co Division of The	Hamden	HB Motion Picture Service (rental & service, projection and sound)	New Haven
Norwalk Airconditioning Corp	South Norwalk	W L Maxson Corp	Hamden	Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors; 35mm filmstrip and sound slide film projectors)	Plainville
Air Conditioning Contractors		Alumilite Aluminum Sheets		Automatic Buffing & Polishing Machines	
Salmini Co., Inc., J. P.	Milford	Leed Co The H A	Hamden	Harper Buffing Machine Company The	East Hampton
Air Conditioning Products		Aluminum Awnings		Auto Cable Housing	
Dunham-Bush Inc	West Hartford	Norlee Aluminum Prod Corp	Bloomfield	Wiremold Company The	Hartford
Air Ducts		Aluminum—Bar, Rod, Sheet, Plate		Automatic Assembly Machines	
Wiremold Co The (Retractable)	Hartford	Frasse & Co Inc Peter A	Hartford	Sperry Products Inc	Danbury
Air Heaters—Direct Fired		Aluminum Bronze Castings		Automatic Control Instruments	
Peabody Engineering Corporation	Stamford	Knapp Foundry Company Inc	Guilford	Bristol Co The (temperature, pressure, flow humidity, time)	Waterbury
Air Impellers		Aluminum Castings		Automobiles—Children's	
The Torrington Manufacturing Co.	Torrington	Eastern Malleable Iron Company The	Naugatuck	Powercar Company	Mystic
Air Cylinders		Newton-New Haven Co	West Haven	Automotive Bodies	
Cushman Chuck Co.	Hartford	Aluminum Die Castings		Metropolitan Body Company	Bridgeport
Aircraft		Mt Vernon Die Casting Corporation	Stamford	Automobile Leasing	
Sikorsky Aircraft Division	United Aircraft	Peaseley Products, Inc.	Stratford	Motorlease Corporation, The	West Hartford
Corporation (helicopters)	Bridgeport	Peerless Aluminum Foundry Co Inc (permanent mold)	Bridgeport	Automotive Parts	
Aircraft Accessories		Stewart Die Casting Div. Stewart-Warner Corp	Bridgeport	Bridgeport Thermostat Div Robertshaw—Fulton Controls Co (automobile thermostats)	Milford
Chandler Evans Corporation (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek—Plug Dehydrator Agents)	West Hartford	Aluminum Foil		Echlin Mfg Co The (Ignition & Brake)	Branford
Consolidated Controls Corp. (pressure & temperature controls)	Bethel	Republic Foil, Inc.	Danbury	Eis Automotive Corp. (Hydraulic Power and Mechanical)	Middletown
Fenn Mfg Co The (Hardened and Ground Gear assemblies)	Newington	Aluminum Forgings		Raybestos Division of Raybestos-Manhattan Inc (Brake Lining, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber)	Bridgeport
Gabb Special Products Inc (filler caps—pressure fuel servicing systems)	Windsor Locks	Consolidated Industries Inc	West Cheshire	Terryville Manufacturing Co (Stampings for automotive parts)	Terryville
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Windsor Locks	Scovill Manufacturing Company	Waterbury	Automatic Polishing and Buffing Equipment	
Aircraft Engine Timing Tools		Aluminum Ingots		Packer Machine Company	Meriden
Aircraft Engine Details		Batchelder Co., Inc., Charles	Newtown	Automotive Tools	
Aircraft Engines		Lapides Metals Corp	New Haven	Eis Automotive Corp (Brake Tools)	Middletown
Aircraft Fasteners		Aluminum Sand Castings			
Aircraft Instruments		Bridgeport Deoxidized Bronze Corp	Bridgeport		
Aircraft Nuts		Peerless Aluminum Foundry Co., Inc.	Bridgeport		
Aircraft—Repair & Overhaul		Aluminum—Sheet and Rod			
Aircraft Studs & Bolts		Scovill Manufacturing Company	Waterbury		
Aircraft Wire & Cable					
Aircraft Test Equipment					
Alumilite Aluminum Sheets					
Aluminum Awnings					
Aluminum—Bar, Rod, Sheet, Plate					
Aluminum Bronze Castings					
Aluminum Castings					
Aluminum Die Castings					
Aluminum Foil					
Aluminum Forgings					
Aluminum Ingots					
Aluminum Sand Castings					
Aluminum—Sheet and Rod					

CONNECTICUT PRODUCTS AND SERVICES

Bag Sealing Machines		Blower Systems		Bridgeport Rolling Mills Company (coil, sheet, strip)	
Derby Sealers Inc	Derby	Colonial Blower Company	Plainville	Bristol Brass Corp The	Bridgeport
Bakelite Moldings		Ripley Co	Middletown	Bristol	
Watertown Mfg Co The	Watertown	Ventilating Supplies Inc	Plainville	Chase Brass & Copper Co	
Balls		Blower Wheels		Miller Company The (phosphor bronze and brass in sheets, strips, rolls)	
Abbott Ball Co The (steel bearing and burnishing)	Hartford	Torrington Manufacturing Company The	Torrington	Plume & Atwood Mfg Co The (sheet, wire, rod)	
Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum)	Hartford	Blueprints and Photostats		Scovill Manufacturing Company	
Kilian Steel Ball Corp The	Hartford	Joseph Merritt & Co	Hartford	Tinsheet Metals Co The (sheets and rolls)	
New Departure Div of General Motors (steel and steel alloys)	Bristol	Blue Printing Machines		Western Brass Mills Div of Olin Mathieson	
Pioneer Steel Ball Company Inc (steel for bearings, burnishing, graining; also brass, bronze and stainless)	Unionville	Rotolite of New England	Glastonbury	Chemical Corp (sheet, strip)	
Superior Steel Ball Co Inc (steel bearings & burnishing material)	New Britain	Boilers		Brass & Bronze Ingot Metal	
Band Saw Machines		Bigelow Co The	New Haven	Mitchell Smelting & Refining Co Inc	
Thompson & Son Co., The	New Haven	Bolts and Nuts		Plume & Atwood Mfg Co The	
Barrels		Clark Brothers Bolt Co.	Milldale	Whipple and Choate Company The	
Abbott Ball Co The (burnishing and tumbling)	Hartford	Hartford Machine Screw Company	Hartford	Brass, Bronze, Aluminum Castings	
Enthone Inc (tumbling)	New Haven	Div of Standard Screw Co	Torrington	Coggins Mfg Co., The J. B.	
Esbec Barrel Finishing Corp (burnishing & tumbling)	Byram	Torrington Co The		Derby Castings Company, The	
Hartford-Steel Ball Co The (tumbling)	Hartford	Boring Tools		Victors Brass Foundry Inc	
Baskets—Wire		Atrax Company The (solid carbide)	Newington	Brass Goods	
Rolock Inc	Fairfield	Bottles		American Brass Company The	
Beaded Chain		Feldman Glass Co The	New Haven	Plume & Atwood Mfg Co The (to order)	
Auto-Swage Products, Inc.	Shelton	Box Board		Rostand Mfg. Co The (Ecclesiastical Brass Wares)	
Bearings		Bird & Son Inc	New Britain	Scovill Manufacturing Company (to order)	
Automation Bearings (ball & spherical)	Bridgeport	Continental Can Co Boxboard and Folding Carton Division	Montville	Western Brass Mills Div Olin Mathieson	
Barden Corporation The (ball)	Danbury	Federal Paper Board Co Inc	Montville, New Haven & Versailles	Brass Mill Products	
Fafnir Bearing Co (ball)	New Britain	Lydall & Foulds Paper Co The	Manchester	American Brass Company The	
Marlin-Rockwell Corporation	Plainville	New Haven Board & Carton Co The	New Haven	Chase Brass & Copper Co	
New Departure Div of General Motors (ball roller)	Bristol	Robertson Paper Box Co	Montville	Plume & Atwood Mfg Co The	
Norma-Hoffman Bearings Corp (ball and roller)	Stamford	Boxes		Scovill Manufacturing Company	
Torrington Co The	Torrington	Bird & Son Inc (corrugated, solid fibre, cleated containers)	New Britain	Seymour Manufacturing Co The	
Bellows Assemblies		Connecticut Container Corporation	New Haven	Western Brass Mills Div Olin Mathieson	
Bridgeport Thermostat Div Robertshaw—		Continental Can Co Fibre Drum and Corrugated Box Division	Portland	Brick-Building	
Fulton Controls Co	Millford	Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes)	Durham	Donnelly Brick Co The	
Bellows—Metallic		Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup)	Bridgeport	Stiles Corp subsidiary of Plasticrete Corp	
Bridgeport Thermostat Div Robertshaw—		Boxes and Crates		Howard Company	
Fulton Controls Co	Millford	City Lumber Co of Bridgeport Inc	The Bridgeport	Mullite Works Refractories Div	
Bells		Boxes—Folding		Co Inc	
Bevin Brothers Mfg Co	East Hampton	Leshine Carton Co	Branford	Bright Wire Goods	
N N Hill Brass Co The	East Hampton	Boxes—Metal		Sargent & Company (Screw Eyes, Screw Hooks, Cup Hooks, Hooks and Eyes, C H Hooks)	
Belted		Durham Mfg Co	Durham	Bronze & Aluminum Castings	
Hartford Belting Co	Hartford	Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes)	Durham	Knapp Foundry Company Inc (rough or machined)	
Russell Mfg Co (High Speed Endless, Laminated Rubber, Roll Stock all types)	Middletown	Scovill Manufacturing Company (aluminum, brass, bronze, copper-cosmetic, drug, hair pin, ointment, pill, powder, rouge, vanity)	Waterbury	Bronze Sand Castings	
Bends—Pipe or Tube		Boxes—Paper—Folding		Bridgeport Deoxidized Bronze Corp	
National Pipe Bending Co	New Haven	Atlantic Carton Corp	Norwich	Brooms—Brushes	
Bicycle Sundries		Bridgeport Paper Box Co	Bridgeport	Fuller Brush Co., The	
Torrington Co The	Torrington	Carpenter-Hayes Paper Box Co Inc	East Hampton	Buckles	
Blackening Salts for Metals		Continental Can Co Boxboard and Folding Carton Division	Montville	Hawie Mfg Co The	
Du-Lite Chemical Corp	Middletown	Curtis & Sons Inc S	Sandy Hook	North & Judd Manufacturing Co	
Enthone Inc	New Haven	Folding Cartons Incorporated (paper, folding)	Versailles	Patent Button Co The	
Mitchell-Bradford Chemical Co	Millford	Mills Inc H J	Bristol	Risdon Manufacturing Co John M	
Black Oxide Finishing		National Folding Box Co Div Federal Paper Board Co Inc (paper folding)	New Haven and Versailles	Buffing & Polishing Compositions	
Black Oxide Inc	New Britain	New Haven Board & Carton Co The	New Haven	Apothecaries Hall Company Division	
Black Oxide Treatment		Robertson Paper Box Co	New Haven	The Hubbard Hall Chemical Company	
Bennett Metal Treating Co The	Elmwood	Warner Bros Co The	Bridgeport	Lea Mfg Co	
Blades		Boxes—Paper—Setup		Building Materials	
Capewell Manufacturing Company Metal Saw Division (back saw and band saw)	Hartford	Bridgeport Paper Box Co	Bridgeport	City Lumber Co of Bridgeport Inc	
Blast Cleaning Equipment		Heminway Corporation The	Waterbury	Burglar Alarm Systems	
Pressure Blast Mfg Co Inc (Wet and Dry and Abrasives)	Manchester	Mills Inc H J	Bristol	Mosler Research Products, Inc.	
Blocks		Strouse Adler Company The	New Haven	Burners	
Howard Company (cupola fire clay)	New Haven	Warner Bros Co The	Bridgeport	Plume & Atwood Mfg Co The (kerosene oil lighting)	
Blower—Centrifugal Type		Brake Cables		Burners—Automatic	
Spencer Turbine Co., The	Hartford	Eis Automotive Corp	Middletown	Peabody Engineering Corporation	
Blower Fans		Brake Linings		Burners—Coal and Oil	
Colonial Blower Company	Plainville	Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial)	Bridgeport	Peabody Engineering Corporation (Combined)	
Spencer Turbine Co The	Hartford	Russell Mfg Co (all types, Fused Fabric, Durak, Wireback, Extruded)	Middletown	Burners—Gas	
		Brake Service Parts		Peabody Engineering Corporation (Blast Furnace)	
		Eis Automotive Corp	Middletown		
		Brass & Bronze			
		American Brass Co The (sheet, wire, rods, tubes)	Waterbury		

CONNECTICUT PRODUCTS AND SERVICES

Burners—Gas and Oil
Peabody Engineering Corporation (Combined)
Stamford

Burners—Refinery
Peabody Engineering Corporation (For Gas
and Oil) Stamford

Burnishing
Abbott Ball Co The (Burnishing Barrels and
Burnishing Media) Hartford
Pioneer Steel Ball Company Inc (balls, cones,
other metallic shapes) Unionville

Burs
Atrax Company The (carbide) Newington
Pratt & Whitney Co Inc (carbide and HSS)
West Hartford

Business Forms
Connecticut Manifold Forms Co The
West Hartford

Business Counsellors
Wirth Management Company Wilton

Battans
Frank Parizek Manufacturing Co The Putnam
Schwanda & Sons, B. (ocean pearl and plastic)
Staffordville
Scoville Manufacturing Company (Uniform
and Tack Fasteners) Waterbury
Waterbury Companies Inc (Uniform and Fancy
Dress) Waterbury

Button Head Socket Screws
Holo-Krome Screw Corp. West Hartford

Cabinet Work
Hartford Builders Finish Co Hartford

Cable—Asbestos Insulated
Rockbestos Wire & Cable Co Div Cerro de
Pasco Corp New Haven

Cable-Interlocked Armor
General Electric Company Bridgeport

Cable—Nonmetallic Sheathed
General Electric Company Bridgeport

Cages
Hendryx Co The Andrew B (bird and animal)
New Haven

Cams
American Cam Company Inc Hartford
Bristol Instrument Gears, Inc. Forestville
Hartford Special Machinery Co The Hartford
Rowbottom Machine Company Inc Waterbury

Cams, 2 Dimensional
Mallory Industries Inc West Hartford
Parker-Hartford Corporation Hartford

Cams, 3 Dimensional
Mallory Industries Inc West Hartford
Parker-Hartford Corporation Hartford

Capacitors
Electro Motive Mfg Co Inc The (mica & trim-
mer) Willimantic

Carbide Dies
National Die Co., Inc., The Wolcott

Carbide Form Tools
Somma Tool Co. (for automatic screw ma-
chines) Waterbury

Carbide Shape Dies
Thomaston Tool & Die Co (any form)
Thomaston

Carbide Tools
Atrax Company The (solid) Newington
Precision Tool & Die Co Waterbury

Carbon Pile Type Resistors
Engineered Metals Manchester

Card Clothing
Standard Card Clothing Co The (for textile
mills) Stafford Springs

Card Indexes
Wassell Organization Inc Westport

Carpenter's Tools
Sargent & Company (Planes, Squares, Plumb
Bobs, Bench Screws, Clamps and Saw Vises)
New Haven

Carpets and Rugs
Bigelow-Sanford Carpet Co Thompsonville

Carton Closure Equipment
Better Packages Inc ("Tape-O-Matic," "Better
Pack") Shelton

Casket Trimmings
Bridgeport Casket Hardware Co., The
Bridgeport

Casters
Bassick Company The (Industrial and General)
Bridgeport

Castings
Commercial Foundry Co., The (brass, bronze,
aluminum) New Britain
Connecticut Foundry Co (grey iron) Rocky Hill
Connecticut Malleable Castings Co (malleable
iron castings) New Haven
Ductile Iron Foundry Inc Stratford
Eastern Malleable Iron Company The (mal-
leable iron, metal and alloy) Naugatuck
Farrel-Birmingham Company Inc (Meehanite
Nodular Iron, Steel) Ansonia
H R Engineering Laboratories Inc (centrifugal
steel mold) East Haddam
Malleable Iron Fittings Co (malleable iron and
steel) Branford
McLagon Foundry Co (grey iron) New Haven
New England Alloy Casting Corp Hartford
Newton-New Haven Co (zinc and aluminum)
West Haven
Nutmeg Crucible Steel Co (steel) Branford
Plainville Casting Company (gray, alloy and
high tensile iron) Plainville
Philbrick-Booth & Spencer Inc Hartford
Producto Machine Company The Bridgeport
Scovill Manufacturing Company (Brass &
Bronze) Waterbury
Turner & Syemour Mfg Co The (gray iron,
semi steel and alloy) Torrington
Union Mfg Co (grey iron & semi steel)
New Britain

Waterbury Foundry Company The (highway &
sash weights) Waterbury
Wilcox Crittenden & Co Inc (gray iron and
brass) Middletown (Advt.)

Castings—Investment
Arwood Precision Casting Corp Groton

Cements—Refractory
Mullite Works Refractories Div H K Porter Co
Inc Shelton

Centerless Grinding
Brown Manufacturing Co Plainville
New England Centerless Grinding Inc
West Hartford
Winsted Centerless Co Winsted

Centers
Ready Tool Co The (anti friction, carbide
tipped, high speed) Stratford

Centrifugal Pumps
Hamco Inc (gasoline or electric driven)
New Haven

Cermets
Russell Mfg Co (for missiles, and for friction
materials) Middletown

Chain
Risdon Manufacturing Co John M Russel Div
Naugatuck
Turner and Seymour Mfg Co The (weldless
sash, jack, safety, furnace, universal, lion
and cable) Torrington

Chain-Beaded
Auto-Swage Products Inc Shelton
Bead Chain Mfg Co The Bridgeport

Chain—Power Transmission and Conveying
Whitney Chain Company Hartford
Whitney Chain Co The Subsidiary of Foote
Bros Gear and Machine Corp Hartford

Chairs
The Hitchcock Chair Company Riverton

Chemical Manufacturing
Carwin Company The North Haven

Chemicals
Apothecaries Hall Company Division
The Hubbard Hall Chemical Company
Waterbury
Axton-Cross Co Shelton
Carwin Company The North Haven
Fuller Brush Co. The (for cleaning and main-
tenance—cleaners, deodorants, detergents, dis-
infectants, dust absorbers and polishers)
East Hartford
Macalaster Bicknell Company New Haven
MacDermid Incorporated Waterbury
Naugatuck Chemical Division United States
Rubber Co Naugatuck
New England Lime Company Canaan
Pfizer & Co Inc Chas. New Haven
United States Chemical Corp.

Chemicals—Agriculture
Naugatuck Chemical Division United States
Rubber Co (insecticides, fungicides, weed
killers) Naugatuck

Chemists—Analytical and Consulting
Bridgeport Testing Laboratory Inc Bridgeport

Christmas Light Clips
Foursome Manufacturing Co Bristol

Chromium Plating
Chromium Corp of America Waterbury
Chromium Process Company The Shelton

Chucks
Jacobs Manufacturing Co The (drill chucks
lathe collet chucks and arbors) West Hartford
Skinner Chuck Co The New Britain
Union Manufacturing Company New Britain

Chucks—Air
Power Grip, Inc. Rockfall

Chucks—Drill
Jacobs Manufacturing Co The West Hartford

Chucks & Face Plate Jaws
Skinner Chuck Co The New Britain
Union Manufacturing Company New Britain

Chucks—Lathe
Cushman Chuck Co. (power and hand operated)
Hartford

Chucks—Power Operated
Skinner Chuck Co The New Britain
Union Manufacturing Company New Britain

Clay
Howard Company (Fire Howard "B" and High
Temperature Dry) New Haven

Cleaning Compounds
Enthone Inc (Industrial) New Haven
MacDermid Incorporated Waterbury

Clock Mechanisms
Lux Clock Mfg Co The Waterbury

Clocks
E Ingraham Co The Bristol
United States Time Corporation The Waterbury

Clocks—Alarm
Lux Clock Mfg Co The Waterbury

Clocks—Automatic Cooking
Lux Clock Mfg Co The Waterbury

Clutches
Snow-Nabstedt Gear Corp The New Haven

Clutch Facings
Raybeston Division of Raybestos-Manhattan Inc
(Molded, Woven, Semi-metallic and Full-
metallic) Bridgeport
Russell Mfg Co (rubber Shock Cord—all sizes
and types) Middletown

Coils—Electric
Bittermann Electric Company Canaan
Rowley Spring Co Inc The (Air-wound for
television and electronic industries) Bristol

Coils—Pipe or Tube
National Pipe Bending Co The New Haven
Whitlock Manufacturing Co The Hartford

Coil Winding
Advanced Electronics, Inc. (custom) Rocky Hill

Cold Molded Electrical Insulation
Meriden Molded Plastics Meriden

Commercial Heat Treating
A F Holden Company The West Haven

Communication Systems
Tel-Rad, Inc. Hartford

Compacts
Scovill Manufacturing Company (powder and
rouge) Waterbury

Compressors
Brunner Division of Dunham-Bush Inc
(Refrigeration, Air Conditioning and Air
Compressors) West Hartford
Norwalk Company Inc (high pressure air and
gas) South Norwalk

Computers
Reflection Electronics Inc Stamford
Royal McBee Corp Hartford

Concrete Products
Plasticrete Corp Hamden, Hartford,
North Haven, Waterbury, Willimantic

Condenser and Heat Exchanger Tubes
Scovill Manufacturing Company Waterbury

CONNECTICUT PRODUCTS AND SERVICES

Cones
Sonoco Products Co (Climax-Lowell Div) Mystic
(paper)

Connector
Gorn Electric Co Inc (precision miniature electrical and printed circuit) Stamford

Construction Equipment Trailers
Kensington Welding & Trailer Co The Kensington

Consultants
Robotham Co., The Edward W. (advertising & marketing) Westport

Consulting Engineers
Stanley P. Rockwell Co Inc The (Consulting) Hartford

Continuous Mill Gages
Pratt & Whitney Co Inc West Hartford

Contract Machining
Laurel Mfg Co Inc (Precision Production Small Parts) Plainville
Malleable Iron Fittings Company Branford
McMellon Bros., Inc. (precision threaded parts) Bridgeport

Contract Manufacturers
Advanced Electronics, Inc. Rocky Hill
American Standard Products, Inc. Hartford
Fenn Mfg Co The (Precision Machine Work) Newington
Greist Mfg Co The (Metal parts and assemblies) New Haven
Hartford Machine Screw Co Div of Hartford
Standard Screw Co
Merriam Mfg Co (production runs—metal boxes and containers to specifications) Durham

Plume & Atwood Mfg Co The (metal parts and assemblies) Thomaston
Scovill Manufacturing Company (metal parts and assemblies) Waterbury
J H Sessions & Son Bristol
Torrington Co The Torrington
Voss Co The Branford

Controllers
Bristol Company The Waterbury
Manning Maxwell & Moore Inc Stratford

Controls—Remote
Panish Controls (Remote Controls for Marine & Aeronautic Applications) Bridgeport

Controls—Hydraulic Remote
Sperry Products Inc Danbury

Converters DC to AC
Electric Specialty Co Stamford
Safety Electrical Equipment Corp New Haven

Conveyor Systems
Hayes-Te Equipment Corp Connecticut Conveyor Division (Conveyor Co The) Unionville
Leeds Conveyor Mfg Co The East Haven
Production Equipment Co Meriden

Copper
American Brass Corp The (sheet, wire, rods, tubes) Waterbury
Bristol Brass Corp The (steel) Bristol
Chase Brass & Copper Co (sheet, rod, wire, tube) Waterbury
Thinsheet Metals Co The (sheet and rolls) Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp New Haven

Copper Castings
Knapp Foundry Company Inc Guilford

Copper Sand Castings
Bridgeport Deoxidized Bronze Corp Bridgeport

Copper Sheets
American Brass Company The Waterbury
New Haven Copper Co The Seymour

Copper Shingles
New Haven Copper Co The Seymour

Copper Water Tube
American Brass Company The Waterbury

Copying Machines
Thermo-Fax Sales of Conn., Inc. New Haven

Cord
Russell Mfg Co The (marine & aero shock) Middletown

Cord Sets—Electric
General Electric Company Bridgeport
Seeger-Williams Inc Bridgeport

Cork Cots
Sonoco Products Co (Climax-Lowell Div) Mystic

Corn Cob Meal
Nielson & Sons Inc John R (Graded) South Windsor

Correspondence Files
Wassell Organization Inc Westport

Corrugated Box Manufacturers
Connecticut Container Corporation New Haven
Corrugated Containers Inc Hartford

Corrugated Shipping Cases
Connecticut Container Corporation New Haven
Continental Can Co Fibre Drum and Corrugated Box Division Portland
D L & D Container Corp New Haven
New Haven Board & Carton Co. New Haven

Cosmetic Containers
Eyelet Specialty Div International Silver Co Wallingford
Lakewood Metal Products, Inc. Waterbury
Plume & Atwood Mfg Co The (metal) Thomaston
Scovill Manufacturing Company Waterbury

Cosmetics
Chesebrough-Pond's, Inc. Clinton
Fuller Brush Co. The East Hartford

Counting Devices
Veeder-Root Inc Hartford

Couplings
Scovill Manufacturing Company (garden and industrial hose) Waterbury

Cushioning for Packaging
Gilman Brothers Co The Gilman

Cutters
Atrax Company The (solid carbide) Newington
Hanson-Whitney Co The (thread milling) Hartford
Mitrametric Co The (ground pinion) Torrington
Pratt & Whitney Co Inc (Milling Cutters all types carbide and HSS) West Hartford

Cutting & Creasing Rule
Bartholomew Co H J Bristol

Data Processing Equipment
Royal McBee Corp Hartford

Decalcomanias
Sirocco Screenprints New Haven

Deep Drawings
Stanley Pressed Metal New Britain
Terryville Manufacturing Co Terryville

Deep Hole Drilling & Reaming
Hamden Deep Hole Drilling Co Hamden
Products Design & Mfg. Corp. Newington

Delayed Action Mechanism
M H Rhodes Inc Hartford
R W Cramer Company Inc The Centerbrook

Design
Designers for Business and Industry (product design-appearance) New Haven
Maurice Libson Designer (product styling & appearance design) New Haven

Diamonds—Industrial
Parsons Diamond Products Inc West Hartford
Russell Inc RR Newington

Diamond Tools
Parsons Diamond Products Inc West Hartford
Russell Inc RR Newington

Dictating Machines
Dictaphone Corporation Bridgeport
SoundScriber Corporation The New Haven

Die Cast Dies
C & F Tool & Die Corp Bridgeport

Die Castings
Mt. Vernon Die Casting Co. Stamford
Peasley Products, Inc. (aluminum and zinc) Stratford
Newton-New Haven Co Inc New Haven
Stewart Die Casting Div Stewart-Warner Corp Bridgeport

Die Casting Dies
Eastern Machine Screw Corp The New Haven
Weimann Bros Mfg Co. The Derby

Die Heads—Self Opening
Eastern Machine Screw Corp The New Haven
Geometric Tool Division Greenfield Tap & Die Corp New Haven

Die Sets
Producto Machine Company The Bridgeport
Superior Steel Products Corp. (steel) Cheshire
Union Mfg Co (precision, steel and semi-steel) New Britain

Dies
Hoggson & Pettis Mfg Co The New Haven
Mitrametric Co The (ground for gears) Torrington
Pratt & Whitney Co Inc (thread cutting and thread rolling) West Hartford

Dies & Die Cutting
Douglas Co Geo M New Haven

Dielectric Heaters
Radio Frequency Co, Inc. New Britain

Displays
Sansome Co., S. Frederick (design & production) Short Beach

Display Containers
National Folding Box Co Div Federal Paper Board Co Inc (folding paperboard) New Haven and Versailles

Displays—Design & Production
Ad-Craft Displays Inc Bloomfield
Stifel & Kufka New Britain

Display Equipment
Polecats Inc Old Saybrook

Displays—Metal
Durham Mfg Co The (Designing & Mfg to customers' specifications) Durham
Merriam Mfg Co (Contract Work to Individual Specifications) Durham
Parsons Co Inc W A (custom designed) Durham

Displays—Plastic
Dura Plastics of New York Inc Westport

Diversification Advisors
Wirth Management Company Wilton

Door Closers
Sargent & Company New Haven

Doors
Bilco Co The (metal, residential and commercial) West Haven

Dowel Pins
Allen Manufacturing Co The Bloomfield
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Holo-Krome Screw Corp The West Hartford
Torrington Co The Torrington

Drafting Accessories
Joseph Merritt & Co Hartford

Drawn Shells
Cly-Del Manufacturing Co Waterbury

Drill Presses
Sigourney Tool Co. (sensitive drilling machines) Bloomfield
Townsend Mfg Co The H P Elmwood

Drilling Machines
Pratt & Whitney Co Inc (Deep Hole) West Hartford

Drilling Service—Hard Steel
Walton Co., The West Hartford

Drilling and Tapping Units
Hartford Special Machinery Co. Hartford

Drop Forgings
Atwater Mfg Co Plantsville
Billings & Spencer Co The Hartford
Consolidated Industries West Cheshire
Wilcox Crittenden & Co Inc Middletown

Duplicating Machines
Thermo-Fax Sales of Conn., Inc. New Haven

Duplicating Machine—Automatic
Pratt & Whitney Co Inc West Hartford

CONNECTICUT PRODUCTS AND SERVICES

Dust Collectors
Colonial Blower Co Plainville
Ventilating Supplies Inc Plainville

Elastic
Russell Mfg Co (rubber shock cord—all sizes and types) Middletown

Electric Cables
General Electric Company (for residential, commercial and industrial applications) Bridgeport
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven

Electric Cord Springs
Bristol Spring Manufacturing Co Plainville

Electric Cords
General Electric Company Bridgeport
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven

Electric Enclosed Switches
Arrow-Hart & Hegeman Electric Co The Hartford

Electric Eye Control
Ripley Company Inc Middletown

Electric Fixture Wire
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven

Electric Hand Irons
Winsted Hardware Mfg Co (trade mark "Durabilt") Winsted

Electric Heating Elements
Hartford Element Co Hartford

Electric Insulation
Stevens Paper Mills Inc The Windsor

Electric Lighting Fixtures
Plume & Atwood Mfg Co The Thomaston
Wasley Products Inc Plainville

Electric Motor Controls
Arrow-Hart & Hegeman Electric Co The Hartford

Electric Motor Winding
Monarch Electric Co (3 phase industrial motors) New Britain

Electric Motor Repair
B & J Electric Co Ansonia

Electric Motors
Electric Specialty Co Stamford
Harvey Hubbell Incorporated Bridgeport
Iona Manufacturing Company The Manchester
Monarch Electric Co (Allis Chalmers) New Britain
Safety Electrical Equipment Corp New Haven
U S Electrical Motors Inc Milford

Electric Switches
Harvey Hubbell, Incorporated Bridgeport

Electric Time Controls
Cramer Controls Corporation The Centerbrook

Electric Wire
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven

Electric Wiring Devices
Arrow-Hart & Hegeman Electric Co The Hartford
Harvey Hubbell Incorporated Bridgeport

Electrical Appliances
Iona Manufacturing Company The Manchester

Electrical Conduit Fittings & Grounding Specialties
Gillette-Vibber Company The New London

Electrical Connectors
Burndy Corporation Norwalk

Electrical Control Apparatus
Plainville Electrical Products Co The Plainville

Electrical Controls
Monarch Electric Co (Allis Chalmers) New Britain

Electrical Insulation
Case Brothers, Inc. Manchester

Electrical Recorders
Bristol Co The Waterbury

Electrical Relays and Controls
Allied Control Co Plantville

Electrical Switchboards
Plainville Electrical Products Co The Plainville
Pneumatic Applications Co Simsbury

Electrical Wiring Systems
Wiremold Co The Hartford

Electro Mechanical Prototypes
Victor Tool & Mfg Inc Higganum

Electronic Assemblies
Advanced Electronics, Inc. (custom) Rocky Hill

Electronic Parts
Patent Button Company The Waterbury
Prentice Mfg Co The G E (stampings to customers' specifications) Kensington
Terryville Manufacturing Co (Stampings to customer specifications) Terryville

Electronics
Anderson Laboratories, Inc. West Hartford
Ripley Co Middletown
Sturup Larabee & Warmers Inc Middletown
Vinc Electronics Corporation New Haven

Electro-Mechanical Assemblies
Advanced Electronics, Inc. (custom) Rocky Hill

Electroplating
Coggins Mfg. Co., The J. B. Meriden
Giering Metal Finishing Inc Hamden
National Sherardizing & Machine Co Waterbury
Waterbury Plating Company Waterbury

Electroplating—Equipment & Supplies
Apothecaries Hall Company Division Waterbury
Enthone Inc New Haven
Hubbard Hall Chemical Company The Waterbury
Lea Manufacturing Co The Waterbury
MacDermid Incorporated Waterbury

Electroplating Processes & Supplies
Enthone Inc New Haven

Electrotypes
Barnum-Hayward Electrottype Co Inc New Haven
Lockwood Sons Inc Wm H Hartford
New Haven Electrottype Div Electrographic Corp New Haven

Elevators
Eastern Elevator Co (passenger and freight) New Haven
General Elevator Service Co Hartford

Employment Agencies
Administrative-Technical Personnel Service Hartford
Burnham Employment Agency (executive technical, secretarial) Hartford
Rita, Richard P. Personnel Services, Inc. New Haven, Bridgeport & Hartford
Snelling & Snelling Hartford

Enameling
Giering Metal Finishing Inc Hamden
Waterbury Plating Company Waterbury

Enamels & Lacquers
Dobbs Chemical Co The (industrial finishes to customers' specifications) New Haven

Engineering
Technical Design and Development Co Inc Milford
(design and drafting)

Engineering Service
Lacey Manufacturing Co., The Bridgeport

End Mills
Atrax Company The (solid carbide) Newington

Engraving—Plastic and Nonferrous Metals
New England Engraving Company Div of Dura Plastics of New York Inc Westport
Pratt & Whitney Co Inc (carbide and HSS) Hartford
Salisbury Products Inc Lakeville

Envelopes
Curtis 1000 Inc Hartford
United States Envelope Company Hartford Division Hartford

Environmental Test Equipment
American Research Corporation Farmington

Excelsior
Nielsen & Sons Inc John R South Windsor

Explosives
Ensign-Bickford Co, The (safety fuse, detonating fuse, blasting accessories) Simsbury

Extensions—Tap
Walton Co., The West Hartford

Extractors
Walton Co., The (tap, pipe & stud) West Hartford

Extraction Service
Walton Co., The (taps, drills, studs) West Hartford

Extruders and Accessories
Davis Electric Company (Ram Type Teflon Extruder) Wallingford
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic

Eyelets
American Brass Co The Waterbury
Arro Eyelet & Tool Co. (small-printed circuit, brass & copper) Waterbury
Cly-Del Manufacturing Waterbury
Gem Machine & Tool Co. Waterbury
Mark Eyelet & Stamping Co (small-metal stampings) Wolcott
Platt Bros & Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Stevens Co Inc Waterbury
Salem Mfg. Co. Prospect

Eyelets, Ferrules and Wiring Terminals
American Brass Company The Waterbury

Eyelet Machine Products
American Brass Company The Waterbury
Ball & Socket Mfg Co The West Cheshire
Cold Forming Mfg Co The Waterbury
Lakewood Metal Products, Inc. Waterbury
National Die Co., Inc., The Wolcott
Platt Bros & Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Stevens Co Inc Waterbury

Eyelet Parts
Auto-Swage Products, Inc. Shelton

Fabricators
Scovill Manufacturing Company (aluminum, brass, bronze, copper, steel) Waterbury

Fabrics
Russell Mfg Co (Teflon, Moulded Fabric, Bearing Surfaces, High Temperature Fabrics) Middletown

Fan Blades
Torrington Manufacturing Company The Torrington

Fans—Electric
General Electric Company Bridgeport
Monarch Electric Co (attic, industrial and ventilating) New Britain

Fans—Industrial
Ventilating Supplies Inc Plainville

Fasteners—Aircraft
Scovill Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury

Fasteners—Industrial
Torrington Co The Torrington

Fasteners—Laundry Proof
Scovill Manufacturing Company (GRIPPER snap fasteners) Waterbury

Fasteners—Slide & Snap
Scovill Manufacturing Company (GRIPPER zippers and GRIPPER snap fasteners) Waterbury

Felt
Auburn Manufacturing Company The (mechanical, cut parts) Middletown
Drycor Felt Company (paper makers and industrial) Staffordville

Felt—All Purpose
American Felt Co (Mill & Cutting Plant) Glenville
Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

Fiber-glass Fabrication
Davis Co The E J West Haven

Fibre Board
Bird & Son Inc New Britain
Case Brothers Inc Manchester
Colonial Board Company Manchester
C H Norton Co The North Westchester
Stevens Paper Mills Inc The Windsor

Fiberglass Products
Fiberglass Products Eng. Co. South Norwalk

CONNECTICUT PRODUCTS AND SERVICES

File Cards		Malleable Iron Fittings Co (Malleable Iron and Steel Castings)	Branford	Grommets	American Brass Company The	Waterbury
Standard Card Clothing Co The		New England Alloy Casting Corp	Hartford	Plume & Atwood Mfg Co The		Waterbury
Stafford Springs		Plainville Casting Company (gray, alloy and high tensile irons)	Plainville	Ground Plate		Cheshire
Filing Equipment		Producto Machine Company The	Bridgeport	Superior Steel Products Corp.		
Wassell Organization Inc		Turner & Seymour Mfg Co The (gray, iron, semi steel and alloy)	Torrington	Guards		
Film Processing Machinery		Union Mfg Co (gray iron & semi steel)	New Britain	Interstate Industrial Protection Co. (watchmen service)		Bridgeport
Filmline Corporation		Wilcox Crittenden & Co Inc (iron, brass, aluminum and bronze)	Middletown	Hack and Band Saw Blades		
Filters—Fluid		Fountain Pens and Mechanical Pencils		Capewell Manufacturing Co The		Hartford
Alsop Engineering Co		Waterman Pen Company Inc		Hair Hygiene Preparations		
Cuno Engineering Corp The		John P Smith Co The		Parker Herbex Corporation		Stamford
Milldale		Foundry Riddles		Hammer and Axe Wedges		
Meriden		Peck Spring Co		Saling Manufacturing Company ("Sta-Fast" steel)		Unionville
Filter Media		Four Slide Forms		Hammers—Carpenters and Machinists		
National Filter Media Corp. (cloth & paper)		Fuel Oil Pump and Heater Sets		Capewell Manufacturing Company		Hartford
New Haven		Peabody Engineering Corporation		Hand Tools		
Finger Nail Clippers		Furnaces		Billings and Spencer Company (wrenches, sockets and shop tools)		Hartford
H C Cook Co The		Norwalk Airconditioning Corp		Bridgeport Hardware Mfg Corp The (screw drivers, wrenches, nail pullers, box & crate openers, pliers, saws, trowels & special forgings)		Bridgeport
Ansonia		Rockwell Co., W. S. (industrial)		Hardened and Ground Parts		
Firearms		Gage Blocks		Hartford Machine Screw Company		Hartford
Colt's Patent Fire Arms Mfg Co Inc		Pratt & Whitney Co Inc (Alloy steel and Carbide, Hoke and USA)		Div of Standard Screw Co		
Hartford		Galvanizing		Hardness Testers		
Junior Screw Machine Products Inc		Malleable Iron Fittings Co		Wilson Mechanical Instrument Div		American
West Haven		Wilcox Crittenden & Co Inc		Chain & Cable Company Inc		Bridgeport
New Haven		Garment Accessories		Hardware		
O. F. Mossberg & Sons Inc		Oakville Co. Div. Scovill Mfg. Co.		Bassick Company The (Automotive)		
Winchester-Western Div Olin Mathieson Chemical Corp		Gaskets		City Lumber Co of Bridgeport Inc		Bridgeport
New Haven		Auburn Manufacturing Company The (from all materials)		Eagle Lock & Screw Co.		Terryville
Fire Alarm Systems		Raybestos Division of Raybestos-Manhattan Inc		Gordon Associates		Derby
Fire-Lite Alarms Inc		Gaskets—Metallic		Harlock Products Corp		New Haven
New Haven		Laminated Shim Company Inc		Sargent & Company		New Haven
Fire Hose		Gas Scrubbers, Coolers and Absorbers		Wilcox Crittenden & Co Inc (marine heavy and industrial)		Middletown
Fabrics Fire Hose (municipal and industrial)		Peabody Engineering Corporation		Yale & Towne Mfg Co The		Stamford
Sandy Hook		Gauges		Hardware—Marine & Bus		
Fireplace Goods		Bristol Co The (pressure and vacuum-recording automatic control)		Rostand Mfg Co The		Milford
Puritan Fireplace Furnishings Co.		Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum)		Hardware—Trailer Cabinet		
Milford		J & S Machine Co Inc (End Measures, Cyl Plugs & Rings)		Excelsior Hardware Co The		Stamford
Fireworks		Manning Maxwell & Moore Inc		Hardware, Trunk & Luggage		
M Backes' Sons Inc		New Haven Trap Rock Co The Machine Products Div (Johan Universal and Special Purpose Gauge)		Corbin Cabinet Lock Div American Hardware Corp		New Britain
Wallingford		Pratt & Whitney Co Inc (Precision Measurement all types)		J H Sessions & Son		Bristol
Flame Hardening		Gears		Yale & Towne Mfg Co The		Stamford
Flame Treating & Engineering Co., The		Bridgeport Worm & Gear Mfg. Co.		Harrow Discs		
West Hartford		Bristol Instrument Gears, Inc.		Scovil, Inc., D & H		Higganum
Flashlights		Mitrametric Co The (blanked fine pitch)		Hats		
Bridgeport Metal Goods Mfg Co		Gears and Gear Cutting		Hat Corporation of America (men's felt)		South Norwalk
Bridgeport		Farrel-Birmingham Company Inc		Hat Machinery		
Flat Head Socket Screws		Fenn Mfg Co The		Doran Bros Inc		Danbury
Holo-Krome Screw Corp.		United Gear & Machine Co		Health Surgical & Orthopedic Supports		
West Hartford		Generators		Berger Brothers Company The (custom made for back, breast and abdomen)		New Haven
Flat Springs		Hamco Inc (electric, portable, gasoline driven)		Heaters		
Bristol Spring Manufacturing Co.		Safety Electrical Equipment Corp		Silent Glow Oil Burner Corp., The (portable oil)		Hartford
Gemco Manufacturing Co Inc		Glass Blowing		Heat Elements		
Southington		Macalaster Bicknell Company		Electroflex Heat Inc		Hartford
Flexible Shaft Machines		Glass Containers		Safeway Heat Elements Inc (woven wire resistance type)		Middletown
Pratt & Whitney Co Inc		Glass Cutters		Heat Exchangers		
West Hartford		Fletcher-Terry Co The		Whitlock Manufacturing Co The		Hartford
Floats		Grinding		Heat Sealing—Electronic		
Sansone Co., S. Frederick (parade)		Farrel-Birmingham Company Inc (Roll and Cylindrical)		Berger Bros (vinyl-polyethylene)		New Haven
Short Beach		Horberg Grinding Industries Inc (Precision custom grinding: centerless, cylindrical, surfaces, internal and special)		Heat Treating		
Float Switches		K-F & D Mfg Company The (Contour and Precision)		ABA Tool & Die Co		Manchester
Gorn Electric Co Inc (for aircraft and commercial use)		Grinding Machines		Bennett Metal Treating Co The		Elmwood
Stamford		Farrel-Birmingham Company Inc (Roll)		Commercial Metal Treating Co		Bridgeport
Floor & Ceiling Plates		Rowbottom Machine Company Inc (cam)		Hartford Machine Screw Company		Hartford
Beaton & Cadwell Mfg Co The		Grinding Wheels		New Britain-Gridley Machine Division		
New Britain		Fuller Merriam Company The		The New Britain Machine Co		New Britain
Fluorescent Lighting Equipment		Forgings		New Haven Heat Treating Co Inc		New Haven
Fullerton Manufacturing Corp		Atwater Manufacturing Company		Progressive Metal Treating (tool and production)		Bridgeport
Norwalk		Billings & Spencer Company		Skene Co Inc The William A (metals)		
Hartford		Bridgeport Hardware Mfg Corp The		Skinner Chuck Co The		New Britain
Willimantic		Capewell Manufacturing Company		Stanley P Rockwell Co Inc The		Hartford
Hartford		Chase Brass & Copper Co				(Adv.)
West Cheshire		Consolidated Industries Inc				
Bridgeport		Heppenstall Co (all kinds and shapes)				
Southington		Foam Rubber				
Waterbury		Armstrong Rubber Company The				
West Haven		Forming Tools				
Berlin		C & S Tool Co., Inc.				
Branford		Forms				
Analysis		Baker Goodyear Co (Columnar and Analysis)				
New Haven		Foundries				
Seymour		Connecticut Malleable Castings Co (malleable iron castings)				
Stratford		Derby Castings Company, The				
		Ductile Iron Foundry Inc				

CONNECTICUT PRODUCTS AND SERVICES

Heat-Treating Equipment		Incinerators		Junior Automobiles	
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Silent Glow Oil Burner Corp., The	Hartford	Power Car Company	Mystic
Bauer & Company Inc	Hartford	Industrial Chrome Plating		Key Blanks	
Rolock Inc (Retorts, Muffles, etc)	Fairfield	Mirror Polishing & Buffing Co	Waterbury	Sargent & Company	New Haven
Stanley P Rockwell Co Inc The (commercial)	Hartford	Indexing Heads		Labels	
		Hartford Special Machinery Co. (Hartford "Super-Spacers")	Hartford	Naugatuck Chemical Division United States Rubber Co (for rubber articles)	Naugatuck
Heat Treating Fixtures		Induction Hardening		Label Dispensers	
Rolock Inc (Trays, Baskets, etc.)	Fairfield	Flame Treating & Engineering Co.	West Hartford	Derby Sealers Inc (pressure-sensitive labels)	Derby
Wiretex Mfg Co Inc	Bridgeport	Induction Heaters		Label Moisteners	
Heat Treating Salts and Compounds		Radio Frequency Co., Inc.	New Britain	Better Packages Inc ("Counterboy"—"Packer")	Shelton
Mitchell-Bradford Chemical Co	Milford	Industrial Coating		Derby Sealers Inc	Derby
Heaters—Electric		Illuminized Finish Co. (vacuum)	Cromwell	Laboratory Equipment	
General Electric Company	Bridgeport	Industrial Coatings		Eastern Industries Inc	New Haven
Heating		Aluminized Finish & Mfg Co. (vacuum)	Cromwell	Laboratory Supplies	
Dunham-Bush Inc	West Hartford	Industrial Design		Macalaster Bicknell Company	New Haven
Heating and Cooling Coils		Van Dyck Associates (product appearance and engineering)	Westport	Laces	
G & O Manufacturing Co	New Haven	Industrial Displays		American Fabrics Company The	Bridgeport
Heating Elements		Sansone Co S Frederick (Designers Builders and Counselors)	Short Beach	Wilcox Lee Corporation The	Middletown
Hartford Element Co	Hartford	Industrial Finishes		Lacquers & Synthetic Enamels	
Heavy Chemicals		Chemical Coatings Corporation	Rocky Hill	Chemical Coatings Corporation	Rocky Hill
Naugatuck Chemical Division United States Rubber Co (sulphuric, nitric and muriatic acids and aniline oil)	Naugatuck	Industrial Security		I-Sis Chemicals Inc	Stamford
Hex-Socket Screws		Interstate Industrial Protection Co.	Bridgeport	Ladders	
Allen Manufacturing Company The	Bloomfield	Industrial Tapes		Flint Co A W	New Haven
Bristol Company The	Waterbury	Seamless Rubber Company	New Haven	Lamps	
Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Industrial Testing		Plume & Atwood Mfg Co The (metal oil)	Waterbury
High Frequency Alternators		State Testing Laboratory (chemical, physical, environmental, electronic, radiographic isotope)	Bridgeport	Lamp Products	
Electric Specialty Co	Stamford	Infrared Detectors		de Sherbinin Products, Inc., W. N. Hawleyville	
Safety Electrical Equipment Corp	New Haven	Barnes Engineering Co. (and systems)	Stamford	Lampholders—Incandescent and Fluorescent	
Highway Guard Rail Hardware		Inks		General Electric Company	Bridgeport
Malleable Iron Fittings Co	Brantford	Waterman Pen Company Inc	Seymour	Lamp Shades	
Hinges		Insecticides		Verplex Company The	Essex
Homer D Bronson Company	Beacon Falls	American Cyanamid Company	Waterbury	Lanterns—Battery Operated	
Hobs and Hobbings		Fuller Brush Co. The	East Hartford	Electrical Div Olin Mathieson Chemical Corp	New Haven
Pratt & Whitney Co Inc (Die and Thread milling)	West Hartford	Inserts—Screw Threads		Lathe Chucks	
Hobs		Heli-Coil Corp	Danbury	Whiton Machine Co.	New London
Hanson-Whitney Co The (fine pitch gear)		Instalment Payment Books		Lathes—Toolroom and Automatic	
Hoes		Wassell Organization Inc	Westport	Pratt & Whitney Co Inc	West Hartford
Scovill, Inc., D & H (eye and grub)	Higganum	Insulated Wire & Cable		Lead Plating	
Hoists and Trolleys		General Electric Company (for residential commercial and industrial applications)		Christie Plating Co The	Groton
Union Mfg Company	New Britain	Kerite Company The	Bridgeport	Leather	
Hooks & Eyes		Insulated Wire & Cable Machinery		Herman Roser & Sons Inc (Genuine Pigskin)	Glastonbury
Oakville Co. Div. Scovill Mfg. Co.	Oakville	Davis Electric Company	Wallingford	Leather Dog Furnishings	
Homogenizers		Instruments		Andrew B Hendryx Co The	New Haven
Sonic Engineering Corp.	Stamford	Bristol Company The	Waterbury	The Smith-Worthington Saddlery Co	Hartford
Honing		Manning Maxwell & Moore Inc	Stratford	Leather, Mechanical	
K-F & D Mfg Company The	Manchester	Penn Keystone Corporation	Derby	Auburn Manufacturing Company	The (packings, cubs, washers, etc)
Hose Fittings		Pratt & Whitney Co Inc (Precision Measuring)	West Hartford	Letterheads	
Scovill Manufacturing Company (garden and industrial hose)	Waterbury	Terryville Manufacturing Co (stampings for)	Terryville	Lehman Brothers Inc (designers, engravers, lithographers)	New Haven
Hose—Flexible Metallic		Integrators		Lighting Equipment	
American Brass Co		Reflectone Electronics Inc	Stamford	Fullerton Manufacturing Corp	Norwalk
American Metal Hose Branch	Waterbury	Intercommunication		Miller Co The (Miller, Ivanhoe)	Meriden
Johnson Metal Hose, Inc.	Waterbury	Action Systems Co	Meriden	Lighting Fixtures	
Hose Supporter Trimmings		Interval Timers		Wasley Products Inc	Plainville
Hawie Mfg Co The (So-Lo Grip Tabs)	Bridgeport	Lux Clock Manufacturing Company	Waterbury	Lime	
Hospital Products		Rhodes Inc M H	Hartford	New England Lime Company	Canaan
Seamless Rubber Company	New Haven	Investigators		Lipstick Cases	
Hospital & Rehabilitation Equipment		Dale System, Inc.	New Haven	Scovill Manufacturing Company	Waterbury
Polecats Inc	Old Saybrook	Jacquard Cards		Lipstick Containers	
Hydraulic Brake Fluids		Case Brothers, Inc.	Manchester	Bridgeport Metal Goods Mfg Co	Bridgeport
Eis Automotive Co	Middletown	Japanning		Lakewood Metal Products, Inc.	Meriden
Hydraulic Components and Systems		H Sessions & Son	Bristol	Plume & Atwood Manufacturing Co	Waterbury
Vickers Incorporated Marine & Ordnance Dept.	Waterbury	Jig Borer		Lithography	
H.S. Form Tools		Atlantic Machine Tool Works, Inc. (Atlantic in several sizes)	Newington	City Printing Co The	New Haven
Somma Tool Co. (for automatic screw machines)	Waterbury	Linley Brothers Company	Bridgeport	Connecticut Printers, Inc.	Hartford
Hypodermic Needles		Moore Special Tool Co (Moore)	Bridgeport	Lehman Brothers Inc	New Haven
Roehr Products Company	Waterbury	Pratt & Whitney Co Inc	West Hartford	Muirson Label Co., Inc.	Stamford
Impregnating		Jigs, Fixtures & Gages		O'Toole & Sons Inc T	Stamford
American Metaseal Inc (metal, wood, etc.)	Hamden	Federal Machine & Tool Co	Bristol	Steinbach & Sons A D	New Haven
		Jig Grinder			
		Moore Special Tool Co (Moore)	Bridgeport		

CONNECTICUT PRODUCTS AND SERVICES

Locks—Builders		Machinery—Metal-Working		Machining—Horizontal Boring	
Sargent & Company	New Haven	Fenn Mfg Co The	Newington	Tucker Machine Co	New Haven
Locks—Cabinet		Machinery—Nut		Magnesium Sand Castings	
Excelsior Hardware Co The	Stamford	Waterbury Farrel Foundry & Machine Co The	Waterbury	Peerless Aluminum Foundry Co., Inc.	Bridgeport
Lock Nuts		Machinery—Screw and Rivet		Management Consultants	
McMellon Bros., Inc.	Bridgeport	Waterbury Farrel Foundry & Machine Co The	Waterbury	Administrative-Technical Personnel	Hartford
Locks—Suitcase and Trimmings		Machinery—Wire Drawing		Management Counsel	
Excelsior Hardware Co The	Stamford	Waterbury Farrel Foundry & Machine Co The	Waterbury	Wirth Management Company	Wilton
Locks—Trunk		Machinery—Wire Straightening		Manganese Bronze Ingot	
Excelsior Hardware Co The	Stamford	Shuster Wire Machine Div. Mettler Machine	New Haven	Whipple and Choate Company	Bridgeport
Locks—Zipper		Machinery—Wire Straightening and Cutting		Manicure Instruments	
Excelsior Hardware Co The	Stamford	Shuster Wire Machine Div. Mettler Machine	New Haven	W E Bassett Company The	Derby
Loom—Non-Metallic		Machines		Manifold Forms	
Wiremold Company The	Hartford	Allison-Campbell Div. American Chain & Cable	Bridgeport	Walters Business Forms, Inc.	Bloomfield
Lumber & Millwork Products		Machines—Automatic Chucking		Marine Equipment	
City Lumber Co of Bridgeport Inc	Bridgeport	New Britain-Gridley Machine Division	New Britain	Wilcox-Crittenden Div North & Judd Mfg Co	Middletown
Machetes		Machines—Draw Benches		Marine Machines	
Collins Company The	Collinsville	Fenn Manufacturing Company The	Newington	Essex Machine Works, Inc (Propellers, Shafts, etc.)	Essex
Machine Overload Monitors		Machines—Forming		Marine Reserve Gears	
Sperry Products Inc	Danbury	Nilson Machine Company The A H (four-slide wire and ribbon stock)	Shelton	Snow-Nabstedt Gear Corp The	New Haven
Machine Shop Fabrication		Machines—Paper Ruling		Marketing Counsel	
Advanced Electronics, Inc.	Rocky Hill	John McAdams & Sons Inc	Norwalk	Brunelle Co., The Charles	Hartford
Machine Tools		Machines—Precision Boring		Market Studies and Reports	
Farrel-Birmingham Company Inc	Ansonia	New Britain-Gridley Machine Division	New Britain	Wirth Management Company	Wilton
Pratt & Whitney Co Inc	West Hartford	Machines—Rolling		Marketing Service	
Producto Machine Company The	Bridgeport	Fenn Manufacturing Company The	Newington	Business Incubation Laboratory	Wilton
Machine Work		Machines—Slotting		Marking Devices	
Banthin Engineering Co	Bridgeport	Waterbury Farrel Foundry & Machine Co The	Waterbury	Cooney Engraving Co	Brantford
Essex Machine Works Inc	Essex	Machines—Special		Hoggson & Pettis Mfg Co The	New Haven
Farrel-Birmingham Company Inc	Ansonia	Fenn Mfg Co The	Newington	Parker-Hartford Corporation (steel)	Hartford
Fenn Manufacturing Company The	Bridgeport	Fuller Brush Co The	East Hartford	Marking Tools	
Fuller Brush Co. The (precision contract work)	East Hartford	Machines—Special Build		Parker-Hartford Corporation	Hartford
parts)	Newington	Machines—Swaging		Masonry Products	
Hartford Special Machinery Co The (contract work only)	Hartford	Fenn Manufacturing Company The	Newington	Plasticrete Corp	Hamden, Hartford, North Haven, Waterbury, Willimantic
parts)	Bridgeport	Torrington Co The	Torrington	Materials Handling	
McMellon Bros., Inc. (precision threaded parts)	Hartford	Machines—Thread Rolling		Hayes-Te Equipment Corp Connecticut	Unionville
National Sheradizing & Machine Co. (job)	Hartford	Shuster Wire Machine Div. Mettler Machine	New Haven	Conveyor Division (Conn-Veyor)	Durham
New Haven Trap Rock Co The Machine Products Div	North Branford	Machines—Turks Head		Parsons Co Inc W A (tote pans)	Durham
Parker-Hartford Corporation	Hartford	Fenn Manufacturing Company The	Newington	Mats—Newspaper	
Safety Electrical Equipment Corp	New Haven	Waterbury Farrel Foundry & Machine Co The	Waterbury	Lockwood Sons Inc Wm H	Hartford
Torrington Manufacturing Co The (special rolling mill machinery)	Torrington	Machines—Wire Drawing		Mattresses	
Torrington Co The	Torrington	Fenn Manufacturing Company The	Newington	Waterbury Mattress Co	Waterbury
Machinery		Machines—Wire Straightening		Metal Boxes	
Conn Machine Repair Inc	Bridgeport	Shuster Wire Machine Div. Mettler Machine	New Haven	Durham Mfg Co	Durham
(special mfg)	Bridgeport	Machines—Special		Parsons Co Inc W A (tool kits)	Durham
Davis Electric Company (Wire and Cable)	Wallingford	Fenn Mfg Co The	Newington	Metal Boxes and Displays	
Fenn Manufacturing Company The (special)	Newington	Fuller Brush Co The	East Hartford	Durham Mfg Co The (Designing & Mfg to customers' specifications)	Durham
Halden Machine Company The (mill)	Thomaston	Machines—Special Build		Merriam Mfg Co (Bond, Security, Cash, Utility, Personal Files, Drawer Safes, Custombuilt containers and displays)	Durham
Torrington Manufacturing Co The (mill)	Torrington	Essex Machine Works Inc	Essex	Metal Cleaners	
Waterbury Farrel Foundry & Machine Co The	Waterbury	Machines—Swaging		Apothecaries Hall Company Division	Waterbury
Division of Textron Inc (metal working)	Waterbury	Fenn Manufacturing Company The	Newington	The Hubbard Hall Chemical Company	Waterbury
Machinery—Automatic		Torrington Co The	Torrington	Enthone Inc	New Haven
Banthin Engineering Company (new and rebuilt)	Bridgeport	Waterbury Farrel Foundry & Machine Co The	Waterbury	MacDermid Incorporated	Waterbury
Machinery—Automatic Feeding		Machines—Thread Rolling		Metal Finishes	
Technical Design and Development Co Inc	Milford	Shuster Wire Machine Div. Mettler Machine	New Haven	Enthone Inc	New Haven
Machinery—Bolt and Nut		Machines—Turks Head		Mitchell-Bradford Chemical Co	Milford
Waterbury Farrel Foundry & Machine Co The	Waterbury	Fenn Manufacturing Company The	Newington	Metal Finishing	
Division of Textron Inc	Waterbury	Waterbury Farrel Foundry & Machine Co The	Waterbury	Contract Plating Co., Inc.	Stratford
Machinery—Cold Heading		Machines—Wire Drawing		Hartford Industrial Finishing Co	Hartford
Waterbury Farrel Foundry & Machine Co The	Waterbury	Fenn Manufacturing Company The	Newington	National Sheradizing & Machine Co	Hartford
Machinery Dealers & Rebuilders		Division of Textron Inc	Waterbury	Stamford Polishing & Plating Corp.	Stamford
Botwinik Brothers	New Haven	Machines—Wire Straightening		Waterbury Plating Company	Waterbury
Bristol Metal Working Equipment	East Hartford	Shuster Wire Machine Div. Mettler Machine	New Haven	Metal Formings	
Conn Machine Repair Inc	Bridgeport	Machines—Wire Straightening and Cutting		Master Engineering Company	West Cheshire
J L Lucas and Son	Fairfield	Shuster Wire Machine Div. Mettler Machine	New Haven	Oakville Co. Div. Scovill Mfg. Co.	Oakville
State Machinery Co Inc	New Haven	Machines		Stanley Pressed Metal	New Britain
Machinery—Extruding		Allison-Campbell Div. American Chain & Cable	Bridgeport		
Standard Machinery and Davis-Standard	Mystic	Machines—Automatic Chucking			
Divisions of Franklin Research Corp	Mystic	New Britain-Gridley Machine Division	New Britain		

CONNECTICUT PRODUCTS AND SERVICES

Metallurgists		Model Work		Nuts, Bolts and Washers	
Bridgeport Testing Laboratory Inc	Bridgeport	B & N Tool & Engineering Co (instruments and timing devices)	Thomaston	Clark Brothers Bolt Co	Milldale
Metal Mouldings		Mold Frames		Hartford Machine Screw Co Div of Standard Screw Co	Hartford
Leed Co The H A	Hamden	Superior Steel Products Corp.	Cheshire	Torrington Co The	Torrington
Metal Powder Products		Molded Fiberglass Products		Office Equipment	
Norwalk Powdered Metals Inc	Norwalk	Fiberglass Products Eng. Co.	South Norwalk	Pitney-Bowes Inc	Stamford
Metal Products—Stampings		Moldings—Powder Metal Materials		Thermo-Fax Sales of Conn., Inc.	New Haven
American Brass Company The	Waterbury	American Sinterings Div. Engineered Plastics	Watertown	Underwood Corporation	Hartford
Plume & Atwood Manufacturing Co	Thomaston	Mops		Wassell Organization Inc	Westport
J H Sessions & Son	Bristol	Motion Picture Equipment		Office Printing	
Scovill Manufacturing Company (Made-to-Order)	Waterbury	Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors film splicers and rewinders)		Kellogg & Bulkeley A Division of	Connecticut
Stanley Pressed Metal	New Britain	Fuller Brush Co. The (wet and dry mops and dusters)		Printers Inc	Hartford
Metal Specialties		Motion Pictures		Offset Printing	
Excelsior Hardware Co The	Stamford	Cine-Video Productions Inc		City Printing Co The	New Haven
Torrington Co The	Torrington	Motor Drives		Oil Burners	
Metal Spinning		Electronic Controls, Inc. (adjustable speed)		Miller Company The (domestic)	Meriden
Moseley Metal Crafts Inc	West Hartford	Motor—Generator Sets		Peabody Engineering Corp (Mechanical and/or Steam Atomizer)	Stamford
Metal Stampings		Electric Specialty Co		Silent Glow Oil Burner Corp The	Hartford
American Brass Company The	Waterbury	Safety Electrical Equipment Corp		Oil Tanks	
Better Formed Metals Inc	Waterbury	Motors—Electric Timing		Norwalk Tank Co. Div. Mersick Industries, Inc.	South Norwalk
Cly-Del Manufacturing Co	Waterbury	Cramer Controls Corporation The		Whitlock Manufacturing Co The	Hartford
DooVal Tool & Mfg Inc The	Naugatuck	Motors—Synchronous		Oils—Cutting	
Excelsior Hardware Co The	Stamford	Cramer Controls Corporation The		Anderson Oil and Chemical Company Inc	Portland
Greist Mfg Co The	New Haven	Electric Specialty Co		Optical Cores & Ingots	
H C Cook Co The	Ansonia	Moulded Plastic Products		Plume & Atwood Mfg Co The	Thomaston
Stanley Humason Inc	Forestville	Butterfield Inc T F		Optical Instruments	
Mohawk Mfg Co (threaded)	Middletown	U S Plastic Molding Corp		Barnes Engineering Co. (and systems)	Stamford
North & Judd Manufacturing Co	New Britain	Waterbury Companies Inc		Otis Woven Awning Stripes	
J A Otterbein Company The (metal fabrications)	Middletown	Watertown Mfg Co The		The Falls Company	Norwich
J H Sessions & Son	Bristol	Mouldings		Ovens	
Patent Button Co The	Waterbury	Himmel Brothers Co The (architectural, metal and store front)		Rockwell Co., W. S. (industrial)	Fairfield
Plume & Atwood Mfg Co The	Thomaston	Moulds		Ovens—Electric	
Saling Manufacturing Company	Unionville	Hoggston & Pettis Mfg Co The (steel)		Bauer & Company Inc	Hartford
Stanheim Mfg. Co.	Bristol	Name Plates		Packaging	
Terryville Manufacturing Co	Terryville	Cooney Engraving Co		Commerce Packaging Corporation (military, commercial & export canning & crating)	Stamford
Wasley Products Inc	Plainville	Quality Name Plate, Inc.		Packaging—Engineering	
Waterbury Companies, Inc.	Waterbury	Seton Name Plate Co (metal & plastic name plates and identification tags)		Commerce Packaging Corp	Stamford
Waterbury Lock & Specialty Co The	Milford	Napper Clothing		Progressive Packaging Corp (military & commercial for domestic and export packaging, canning, crating and shipping)	East Haven
Meters—Gas		Standard Card Clothing Co The (for textile mills)		Packaging & Packing	
Sprague Meter Company	Bridgeport	Nettings		Commerce Packaging Corp	Stamford
Meters—Parking		Wilcox Lace Corp The		Mercer & Stewart Co The	Hartford
Rhodes Inc M H	Hartford	Newspaper Mats		Packing	
Microfilming		Lockwood Sons Inc Wm H		Anuburn Manufacturing Company The (leather, rubber, asbestos, fibre)	Middletown
American Microfilming Service Co	New Haven	New Product Consultants		Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet)	Bridgeport
Cine-Video Productions Inc	Milford	Business Incubation Laboratory		Padlocks	
Microfilm—Reader-Printer		Nickel Anodes		Sargent & Company	New Haven
Thermo-Fax Sales of Conn., Inc.	New Haven	Apothecaries Hall Company Division		Waterbury Lock & Specialty Co The	Milford
Micrometers		The Hubbard Hall Chemical Company		Pads—Office	
Slocum Co The J T	Glastonbury	Seymour Manufacturing Co The		The Baker Goodyear Company	Brantford
Mill Machinery		Nickel Silver		Paints	
Torrington Manufacturing Company The	Torrington	American Brass Company The		Tredennick Paint Manufacturing Co The	Meriden
Waterbury Farrel Foundry & Machine Co The	Waterbury	Plume & Atwood Mfg Co The		Panelite	
Division of Texttron Inc	Waterbury	Waterbury Rolling Mills Inc (sheets, strips, rolls)		Leed Co The H A	Hamden
Milling Machines		Western Brass Mills Div Olin		Pants	
Pratt & Whitney Co Inc (Keller Tracer—Controlled Milling Machines)	West Hartford	Chemical Corp (sheet, strip)		Moore Special Tool Co (crush wheel dresser)	Bridgeport
Rowbottom Machine Company Inc (cam)	Waterbury	Nickel Silver Ingot		Paperboard	
Mill Products		Whipple and Choate Company The		Continental Can Co., Boxboard and Folding Carton Division	Montville
Scovill Manufacturing Company (aluminum, brass, bronze, nickel silver—sheet, rod, wire, tube)	Waterbury	Night Latches		Federal Paper Board Co Inc	New Haven
Mill Supplies		Sargent & Company		New Haven Board & Carton Co The	New Haven
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown	Nitriding		Robertson Paper Box Co	Montville
Millwork		Non-ferrous Metal Castings		Paper Boxes	
Hartford Builders Finish Co	Hartford	Miller Company The		Atlantic Carton Corp (folding)	Norwich
Miniature Precision Connectors		Nuclear Details		National Folding Box Co Div Federal Paper Board Co Inc (folding)	New Haven & Versailles
Gorn Electric Co	Stamford	Tag Alloy Welding & Mfg. Co., Inc. (weldments)		Mills Inc H J	Bristol
Minute Minders		Office Equipment		New Haven Board & Carton Co The	New Haven
Lux Clock Mfg Co The	Waterbury	Office Printing		Robertson Paper Box Co (folding)	Montville
Mirror Rosettes and Hangers		Offset Printing		Oil Burners	
Waterbury Companies Inc	Waterbury	Oil Tanks		Miller Company The (domestic)	Meriden
Missile Details		Optical Cores & Ingots		Peabody Engineering Corp (Mechanical and/or Steam Atomizer)	Stamford
Tag Alloy Welding & Mfg. Co., Inc. (weldments)	Glastonbury	Optical Instruments		Silent Glow Oil Burner Corp The	Hartford
Mixing Equipment		Otis Woven Awning Stripes		Ovens	
Alsop Engineering Co	Milldale	Ovens—Electric		Rockwell Co., W. S. (industrial)	Fairfield
Eastern Industries Inc	New Haven	Packaging		Bauer & Company Inc	Hartford

CONNECTICUT PRODUCTS AND SERVICES

Paper Boxes—Folding and Setup		Pipe		Plastic Wire Coating Materials	
Bridgeport Paper Box Company	Bridgeport	American Brass Co The (brass and copper)		Electronic Rubber Co	Stamford
M Backers' Sons Inc	Wallingford	Chase Brass & Copper Co (red brass and copper)	Waterbury	Plastics	
Paper Clips		Howard Co (cement well and chimney)	Waterbury	Naugatuck Chemical Division	United States
H C Cook Co The (steel)	Ansonia		New Haven	Rubber Co	Naugatuck (Advt.)
Paper Fasteners		Pipe Fittings		Plastics & Resins	
Oakville Co. Div. Scovill Mfg. Co.	Oakville	Malleable Iron Fittings Co	Branford	American Cyanamid Co Plastics & Resins Div	Wallingford
Paper Mill Machinery		Pipe Organs		Plastics—Moulds & Dies	
Farrel-Birmingham Company Inc	Ansonia	Austin Organs, Inc.	Hartford	Crown Tool & Die Co Inc	Bridgeport
Paper Products		Pipe Plugs		Plasticrete Block	
Nu-Wipe, Inc. (towel, dusting, finishing, packaging)	polishing, Plainville	Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Plasticrete Corp	Hamden, Hartford, North Haven, Waterbury, Willimantic
Paper—Shredded		Pipe Plugs—Socketed		Platers	
Nielsen & Sons Inc John R	South Windsor	Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Acme Chromium Plating Co	New Haven
Paper Tubes and Cores		Pistols & Revolvers		Christie Plating Co	Groton
Sonoco Products Co (Climax-Lowell) Div	Mystic	Colt's Patent Fire Arms Mfg Co Inc	Hartford	Chromium Process Company The (Plating only)	Shelton
Parallel Tubes		Plant Protection		Water Plating Company	Waterbury
Sonoco Products Co (Climax-Lowell) Div	Mystic	Interstate Industrial Protection Co.	Bridgeport	Platers' Equipment	
Parking Meters		Plastic Blister Packaging		Apothecaries Hall Company	Waterbury
Rhodes Inc M H	Hartford	Commerce Packaging Corporation (ball bearings & small parts)	Stamford	Enthone Inc	New Haven
Parts		Plastic Bottles		Lea Manufacturing Co The	Waterbury
Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Plax Corporation	Bloomfield	MacDermid Incorporated	Waterbury
Scovill Manufacturing Company (ammunition, electric instrument, electrical appliance, fountain pen, instrument, lighting fixture, ordnance, etc.—blanked, stamped, formed, drawn, re-drawn, forged, screw machined, headed, pointed, finished)	Waterbury Torrington	Plastic Buttons		Platers Metal	
Torrington Co The	Torrington	Frank Parizek Manufacturing Co The	West Willington	Plume & Atwood Mfg Co The	Thomaston
Penlights		Plastic Engraving		Plating	
Bridgeport Metal Goods Mfg Co	Bridgeport	New England Engraving Co Div of Dura Plastics of New York Inc	Westport Lakeville	Christie Plating Co The (including lead plating)	Groton
Perfumes		Plastic Extruders		Giering Metal Finishing Inc	Hamden
Chesebrough-Pond's, Inc.	Clinton	Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Roberts Plating Company	Naugatuck
Personnel Consultants		Jessall Plastics Div of The Electric Storage Battery Co	Kensington	Superior Plating Co	Bridgeport
Snelling & Snelling	Hartford	Plastic Fabrication		Tec-Plate Inc	Windsor Locks
Wirth Management Company	Wilton	Dura Plastics of New York Inc	Westport	Plating Processes and Supplies	
Personnel Recruiting		Fabricon Corp	Unionville	Enthone Inc	New Haven
Administrative-Technical Personnel Service (executive)	Hartford	New England Rack Co., Inc. (hood & duct systems, tanks, etc.)	Hamden	Seymour Manufacturing Co The	Seymour
Pet Furnishings		Salisbury Products Inc	Lakeville	State Testing Laboratory Inc (plating analyses)	Bridgeport
Andrew B Hendrix Co The	New Haven	Plastic Film & Sheet Materials		Plating Racks	
Phosphate Coating		Gilman Brothers Co The	Gilman	New England Rack Co., Inc. (anodizing, conveyor, etc.)	Hamden
Black Oxide, Inc.	New Britain	Plax Corporation	Bloomfield	Plumbers' Brass Goods	
Phosphor Bronze		Plastic Forming		McGuire Mfg. Co	Waterbury
American Brass Company The	Waterbury	Dura Plastics of New York Inc	Westport	Scovill Manufacturing Company	Waterbury
Miller Company The (sheets, strips, rolls)	Meriden	Plastic Lining Equipment		Plumbing Specialties	
Waterbury Rolling Mills Inc (sheets, strips, rolls)	Waterbury	Enthone Inc	New Haven	Risdon Manufacturing Co John M	Russell Div
Western Brass Mills Div Olin Mathieson Chemical Corp (sheets, strip)	New Haven	Plastic Material		Pneumatic Conveyors	
Phosphor Bronze Ingots		Dura Plastics of New York Inc (sheet, rod & tube)	Westport	Spencer Turbine Co The	Hartford
Whipple and Choate Company The	Bridgeport	Plastic Molders		Pole Line Hardware	
Photo Engraving		B & B Plastics, Inc.	Oakville	Malleable Iron Fittings Co	Branford
Dowd Wyllie & Olson Inc	Hartford	Butterfield Inc T F	Naugatuck	Police Equipment	
Wilcox Photo Engraving Co Inc	New Haven	Coggins Mfg. Co., The J. B.	Meriden	The Smith-Worthington Saddlery Co	Hartford
Photocopy Equipment and Supplies		Corn Plastics	Waterbury	Polishing	
Ludwig Inc F G	Old Saybrook	Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	C & E Metal Finishing Co	Hartford
Photographic Equipment		Engineered Plastics Inc	Watertown	Mirror Polishing & Buffing Co	Waterbury
Electrical Div Olin Mathieson Chemical Corp	New Haven	Plastic Molding Corporation	Sandy Hook	Postage Meters	
Kalart Company Inc	Plainville	Rogers Manufacturing Co The	Rockfall	Pitney Bowes Inc	Stamford
Piano Repairs		Specialty Plastics Corp (custom)	Shelton	Potentiometers—Electronic	
Pratt Read & Co Inc (keys and action)	Ivoryton	Stanley Chemical Co The	East Berlin	Bristol Company The	Waterbury
Piano Supplies		U S Plastic Molding Corporation	Wallingford	Power Wrenches	
Pratt Read & Co (keys and actions, backs, plates)	Ivoryton	Waterbury Mfg Co The	Watertown	Cushman Chuck Co.	Hartford
Pillow Blocks		Plastic Packages		Precision Machining	
New Departure Div of General Motors (ball)	Bristol	Robertson Paper Box Co., Inc. (plastic trays)	Montville	National Tool & Die Co	Hartford
Pins		Plastic Pipe and Fittings		Precision Machine Tool Spindles	
CEM Company ("Spirol")	Danielson	Colonial Blower Co	Plainville	Whiton Manufacturing Co (for milling, grinding, boring & drilling)	Farmington
Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Precision Manufacturing	
Oakville Co. Div. Scovill Mfg. Co. (safety & straight)	Oakville	Enthone Inc	New Haven	American Standard Products, Inc.	Hartford
Torrington Co The (Dowel & Taper)	Torrington	Plastic Printing Plates		Hartford Machine Screw Co Div of Standard Screw Co	Hartford
Pins—Common		Lockwood Sons Inc Wm H	Hartford	Torrington Co The	Torrington
Union Pin Co., The	Winsted	Plastic Rod		Precision Revolving Machinery	
Pins—Plastic Heads		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Whiton Manufacturing Co	Farmington
Union Pin Co., The	Winsted	Plastic Strip		Precision Sheet Metal Fabrication	
		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Milford Fabricating Co	Milford
		Plastic Tubing		Precision Springs & Wire Forms	
		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Rowley Spring Co Inc The	Bristol
				Premium Specialties	
				Waterbury Companies Inc	Waterbury
				Preservatives—Wood, Rope, Fabric	
				Darworth Incorporated ("Cuprinol")	Simsbury
				Plastic Wire Coating Materials	
				Electronic Rubber Co	Stamford

CONNECTICUT PRODUCTS AND SERVICES

Pressboard		Radiation—Finned Copper		Rivet Setting Machines	
Case Brothers, Inc. (genuine)	Manchester	Bush Manufacturing Co	West Hartford	Millford Rivet & Machine Co The	Millford
Case & Risley Press Paper Co (genuine)	Oneco	G & O Manufacturing Company The	New Haven	Rods	
Presses		Vulcan Radiator Co The (steel and copper)	Hartford	American Brass Company The (copper, brass, bronze)	Waterbury
Farrel-Birmingham Company Inc (Hydraulic)	Ansonia	Radiators—Engine Cooling		Bristol Brass Corp The (brass and bronze)	Bristol
Presses—Power		G & O Manufacturing Co	New Haven	Scovill Manufacturing Company (aluminum, brass, bronze, etc.)	Waterbury
Pneumatic Applications Co The (modernization of presses through conversion to Wichita Air Clutch operation)	Simsbury	Ratchet Offset Screw Driver		Rollers—Bituminous Paving	
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Chapman Co J W	Durham	Gabb Special Products Div E Horton & Son Company	Windsor Locks
Pressure Vessels		Rayon Staple Fiber		Rolled Shapes	
Norwalk Tank Co. Div. Mersick Industries, Inc.	South Norwalk	Hartford Fibres Co div Bigelow	Sanford Co	Cowles & Co., C. (and mouldings)	New Haven
Rolock Inc	Fairfield	Reamers		Roller Skate Wheels	
Whitlock Manufacturing Co The	Hartford	Atrax Company The (solid carbide)	Newington	Raybestos Division of Raybestos-Manhattan Inc	Bridgeport
Printing		Pratt & Whitney Co Inc (All types)	West Hartford	Rolling Mills & Equipment	
Allied Printing Service Inc	Manchester	Pratt & Whitney Co Inc (all types carbide and HSS)	West Hartford	Fenn Mfg Co The	Newington
Bussmann Press Inc	New Haven	Reamers—Helical		Precision Methods & Machines Inc	Waterbury
City Printing Co The	Hartford	Gammons-Hoaglund Co., The	Manchester	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury
Connecticut Printers, Inc.	Waterbury	Reamers—Machine		Rolls	
Finlay Brothers	Bristol	Gammons-Hoaglund Co., The	Manchester	Farrel-Birmingham Company Inc (Chilled and Alloy Iron, Steel)	Ansonia
Hemimway Corporation The	Hartford	Reamers—Taper		Roofing	
Hildreth Press	New Haven	Wassell Organization Inc (filing equipment)	Westport	Lurie Inc A	Bloomfield
Hunter Press	Meriden	Record Equipment		Rotary Files	
Lehman Brothers Inc	Wethersfield	Bristol Co The (automatic controllers, temperature, pressure, flow, humidity)	Waterbury	Atrax Company The (carbide)	Newington
Miller-Johnson, Inc	Hartford	Recording Machines		Routers	
Taylor & Greenough Co The	New Haven	Dictaphone Corporation	Bridgeport	Atrax Company The (solid carbide)	Newington
T B Simonds Inc	Hartford	Reduction Gears		Rubber Chemicals	
A D Steinbach & Sons	New Haven	Snow-Nabstedt Gear Corp The	New Haven	Naugatuck Chemical Division United States Rubber Co	Naugatuck
The Walker-Rackliff Company	Bridgeport	Reels—Wooden		Stamford Rubber Supply Co The ("Factice" Vulcanized Vegetable Oils)	Stamford
Typo Press (and lithographing)	Bridgeport	Bridge Mfg. Cl., The (for wire and cable)	Hazardville	Rubber Drug Sundries	
Printing Machinery		Refractories		Seamless Rubber Company	New Haven
Banthin Engineering Co (automatic)	Bridgeport	Howard Company	New Haven	Rubber Footwear	
Printing Plates		Mullite Works Refractories Div H K Porter Co Inc	Shelton	Goodyear Rubber Co The	Middletown
Ads Inc Div CSW Plastic Types Inc (mats services)	Rocky Hill	Refrigeration		Rubber Latex Compounds and Dispersions	
Lockwood Sons Inc Wm H	Hartford	Dunham-Bush Inc	West Hartford	Naugatuck Chemical Division United States Rubber Co (coating, impregnating and adhesive compounds)	Naugatuck (Advt.)
Printing Rollers		Refrigeration Condensing Units		Rubber Machinery	
Chambers-Storck Company Inc The (engraved)	Norwich	Brunner Division of Dunham-Bush Inc	West Hartford	Farrel-Birmingham Company Inc	Ansonia
Printing—Silk Screen		Refrigeration Service		Rubber—Molded Specialties	
Ad-Craft Displays Inc	Bloomfield	Hartford Refrigeration Service, Inc.	Hartford	Airex Rubber Prod Corp	Portland
Production		Relays		Associated Gaskets Inc	Bridgeport
House Co N. E. (Assembly, Stampings, Drilling & Tapping)	East Hampton	Allied Control, Inc.	Plantsville	Bond Rubber Corporation	Derby
Production Control Equipment		Rental		Rubber Products	
Ripley Company Inc	Middletown	HB Motion Picture Service (audio-visual equip.—all types)	New Haven	Airex Rubber Prod Corp	Portland
Wassell Organization Inc	Westport	Research & Development		Rubber Printing Plates	
Propellers—Aircraft		Continental Engineering Corporation	Farmington	ADS Inc Div CSW Plastic Types Inc	Hartford
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Windsor Locks	Raymond Engineering Laboratories (Electro-Mechanical)	Middletown	Lockwood Sons Inc Wm H	Hartford
Protective Coatings		State Testing Laboratory Inc (chemical/physical testing)	Bridgeport	Rubber—Reclaimed	
Harrison Company The A S (waxes)	South Norwalk	Resistance Wire		Naugatuck Chemical Division United States Rubber Co	Naugatuck
Public Relations Counsel		C O Jelliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum)	Southport	Rubber Specialties	
Brunelle Co., The Charles	Hartford	Kanathal Corporation The	Stamford	Seamless Rubber Company	New Haven
Publicity Services		Respirators		Rubberized Fabrics	
Brunelle Co., The Charles	Hartford	American Optical Company Safety Products Division	Putnam	Duro-Gloss Rubber Co The	New Haven
Publishers		Retainers		Rubbers	
O'Toole & Sons Inc The	Stamford	Hartford Steel Ball Co The (bicycle & automotive)	Hartford	Naugatuck Chemical Div U S Rubber Co (synthetic rubbers and latex)	Naugatuck
Pumps		Lacey Manufacturing Co., The (precision ball bearing)	Bridgeport	Rust Preventives	
Alsop Engineering Co	Milldale	Rigid Plastic Sheet Material		Anderson Oil and Chemical Company Inc	Portland
Sonic Engineering Corp.	Stamford	Gilman Brothers Company The	Gilman	Enthone Inc	New Haven
Sump Pumps Inc (Deep-well electro-submersible)	Stamford	Riveting Machines		Rust Removers	
Pumps—Small Industrial		Grant Mfg & Machine Co The	Bridgeport	Enthone Inc	New Haven
Eastern Industries Inc	New Haven	Linley Brothers Company	Bridgeport	Saddlery	
Punches		Patent Button Co The (automatic)	Waterbury	The Smith-Worthington Saddlery Co	Hartford
Hoggson & Pettis Mfg Co The (ticket & cloth)	New Haven	Ripley Company Inc	Middletown	Safety Belts	
Purchasing Service—Industrial		H P Townsend Manufacturing Co The	Elmwood	Russell Mfg Co	Middletown
Hartz-Miller Associates	Meriden	Rivets			
Putty Softeners—Electrical		Clark Brothers Bolt Co	Milldale		
Fletcher Terry Co The	Forestville	Millford Rivet & Machine Co The	Millford		
Pyrometers		Plume & Atwood Mfg Co The	Thomaston		
Bristol Co The (recording and controlling)	Waterbury	Raybestos Div of Raybestos-Manhattan Inc The (brass and aluminum tubular and solid copper)	Bridgeport		
		Raybestos Div of Raybestos-Manhattan Inc The (iron)	Bridgeport		

CONNECTICUT PRODUCTS AND SERVICES

Safety Clothing		
American Optical Company Safety Division	Products Putnam	
Safety Fuses		
Ensign-Bickford Co The (mining & detonating)	Simsbury	
Safety Gloves and Mittens		
American Optical Company Safety Division	Products Putnam	
Safety Goggles		
American Optical Company Safety Division	Products Putnam	
Sales Promotion		
Langelier-Stevens, Inc.	Orange	
Salvage Service		
Walton Co., The (broken tools extracted)	West Hartford	
Saw Blades—Hack		
Capewell Mfg Co The	Hartford	
Saw Blades—Hack & Band		
Capewell Manufacturing Company	Hartford	
Thompson & Son Co The Henry G	New Haven	
Saws, Band, Metal Cutting		
Atlantic Saw Mfg Co	New Haven	
Capewell Manufacturing Co The	Hartford	
Saws—Hole		
Capewell Manufacturing Co The	Hartford	
Thompson & Son Co The Henry G	New Haven	
Sawdust		
Nielson & Sons Inc John R (graded hardwood and softwood)	South Windsor	
Scissors		
Acme Shear Company The	Bridgeport	
Screens		
Hartford Wire Works Co The (Windows, Doors and Porches)	Hartford	
Norlee Aluminum Prod Corp	Bloomfield	
Screw Caps		
Weimann Bros Mfg Co The (small for bottles)	Derby	
Screw Machines		
H P Townsend Mfg Company The	Elmwood	
Screw Machine Products		
Accurate Screw Products Inc (B & S Swiss & Davenport)	Southington	
American Standard Products, Inc.	Hartford	
Apex Tool Co Inc The	Bridgeport	
Auto Electric Screw Machine Co Inc	Bridgeport	
Bell Enterprise Inc	Deep River	
Brown Manufacturing Co (up to 1½" capacity)	Plainville	
Consolidated Industries	West Cheshire	
Eastern Machine Screw Corp The	New Haven	
Fairchild Screw Products Inc	Winsted	
Franklin Screw Machine Co	Hartford	
Garthwait Mfg Co A E (up to and incl ½")	Waterbury	
Greist Mfg Co The (up to 1½" capacity)	New Haven	
Hartford Machine Screw Co Div of Standard	Hartford	
Horberg Grinding Industries Inc (heat treated and ground type only)	Bridgeport	
Stanley Humason Inc	Forestville	
Independent Screw Company (up to and incl 1½" capacity)	West Hartford	
Junior Screw Machine Products Inc	West Haven	
Lowe Mfg Co The	Wethersfield	
Main Screw Machine Products (davenport & automatics exclusively)	Waterbury	
Mayflower Manufacturing Co.	Unionville	
National Automatic Products Company The	Berlin	
Nelson's Screw Machine Products	Plantsville	
New Britain Machine Company The	New Britain	
New Haven Screw Machine Prods Inc (up to 1½" capacity)	Milford	
Newton Screw Machine Products Co	Plainville	
Olson Brothers Company (up to ¾" capacity)	Plainville	
Olson & Sons R P	Southington	
Plume & Atwood Mfg Co The	Thomaston	
Products Design & Mfg. Corp. (precision)	Newington	
Scovill Manufacturing Company	Waterbury	
United Screw Machine Co	Thomaston	
Waterbury Machine Tools & Products Co (Brown & Sharpe and Davenport)	Waterbury	
Wheeler & Son, Inc., Frank	Meriden	
Screw Machine Tools		
American Cam Company Inc (Circular Form Tools)	Hartford	
Cambridge Specialty Co., Inc. (flat & circular form tools)	Kensington	
Quaker Tool (H.S. cir. form tools)	Waterbury	
Pratt & Whitney Co Inc (Reamers, Taps, Dies, Blades and Knurls)	West Hartford	
Screws		
Allen Manufacturing Company The	Bloomfield	
American Screw Company	Willimantic	
Atlantic Screw Works	Hartford	
Bristol Company The (socket set and socket cap screws)	Waterbury	
Clark Bros Bolt Co Inc (cap and lag)	Milldale	
Hartford Machine Screw Co Div of Standard	Hartford	
Screw Co	Hartford	
Scovill Manufacturing Company	Waterbury	
Superior Manufacturing Co The	Winsted	
Torrington Co The	Torrington	
Screws—Socket		
Allen Manufacturing Company The	Bloomfield	
Bristol Co The	Waterbury	
Hartford Machine Screw Co Div of Standard	Hartford	
Screw Co	Hartford	
Screw Stock		
Driscoll Wire Co., The (steel)	Shelton	
Sealing Tape Machines		
Better Packages Inc ("Counterboy," "Tape-shooter," "Big Inch")	Shelton	
Derby Sealers Inc (gummed and pressure-sensitive tapes)	Derby	
Screw Threads—Inserts		
Heli-Coil Corp	Danbury	
Seals		
Russell Mfg Co (for oven doors and fire bulk-heads)	Middletown	
Sewing Machines		
Greist Mfg Co The (Sewing Machine attachments)	New Haven	
Singer Manufacturing Company The (industrial)	Bridgeport	
Sharpeners		
Gorn Electric Co Inc (electric knife and scissors)	Stamford	
Shears		
Acme Shear Co The (household)	Bridgeport	
Sheet Metal Fabrications		
Lurie Inc A	Bloomfield	
Sheet Metal Products		
American Brass Co The (brass and copper)	Waterbury	
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays)	Durham	
Parsons Co Inc W A (fabricators)	Durham	
Plume & Atwood Mfg Co The	Thomaston	
Precision Sheet Metal Fabrication Div. Bar-Plate Mfg. Co., Inc.	Orange	
United Manufacturing Co Division of the W L Maxson Corp	Hamden	
Sheet Metal Stampings		
American Buckle Company The	Waterbury	
American Buckle Co The	West Haven	
DooVal Tool & Mfg Inc The	Naugatuck	
J H Sessions & Son	Bristol	
Plume & Atwood Mfg Co The	Thomaston	
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys)	Waterbury	
Terryville Manufacturing Co	Terryville	
Sheet Steel		
Dolan Steel Company Inc	Bridgeport	
Shell Cores		
Victors Brass Foundry Inc	Guilford	
Shell Molding		
Victors Brass Foundry Inc	Guilford	
Shells		
Lakewood Metal Products, Inc. (all metals)	Waterbury	
Salem Mfg. Co.	Prospect	
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver—drawn, stamped—electric socket, screw)	Waterbury	
Terryville Manufacturing Co	Terryville	
Wolcott Tool and Manufacturing Company Inc	Waterbury	
Showcase Lighting Equipment		
Wiremold Company The	Hartford	
Signals		
H C Cook Co The (for card files)	Ansonia	
Signs		
Ad-Craft Displays Inc (all types, quantity only)	Bloomfield	
Leonard Sign Co. (neon & factory identification)	Hartford	
Silk Screen Process Printing		
Ad-Craft Displays Inc	Bloomfield	
Norton Co R H	New Haven	
Sirocco Screen prints	New Haven	
Stifel & Kufta Inc	New Britain	
Silk Screening on Metal		
Ad-Craft Displays Inc	Bloomfield	
Merriam Mfg Co (Displays and Specialties to order)	Durham	
Silverware		
Wallace Silversmiths Inc	Wallingford	
Simulators		
Reflectone Electronics Inc	Stamford	
Sintered Metal Products		
American Sintering Div of Engineered Plastics Inc (Powder Metal Parts)	Watertown	
Raybestos Division of Raybestos-Manhattan Inc	Bridgeport	
Sizing and Finishing Compounds		
American Cyanamid Company	Waterbury	
Slide Fasteners		
G E Prentice Mfg Co The	Kensington	
Scovill Manufacturing Company (GRIPPER zippers)	Waterbury	
Smoke Stacks		
Norwalk Tank Co. Div. Mersack Industries, Inc.	South Norwalk	
Snap Fasteners		
Patent Button Co The	Waterbury	
Scovill Manufacturing Company (snap fasteners)	Waterbury	
Snapout and Continuous Forms		
Connecticut Printers, Inc.	Hartford	
Soap		
Fuller Brush Co. The (personal, household and industrial)	East Hartford	
Socket Cap Screws		
Holo-Krome Screw Corp.	West Hartford	
Socket Pipe Plugs		
Holo-Krome Screw Corp.	West Hartford	
Socket Screw Keys		
Holo-Krome Screw Corp.	West Hartford	
Socket Set Screws		
Holo-Krome Screw Corp.	West Hartford	
Socket Shoulder Screws		
Holo-Krome Screw Corp.	West Hartford	
Sound Equipment		
Vinco Electronics Corporation	New Haven	
Spanner Nuts		
McMellon Bros., Inc.	Bridgeport	
Special Machinery		
Banthin Engineering Company (complete and/or parts)	Bridgeport	
Farrel-Birmingham Company Inc	Ansonia	
Federal Machine & Tool Co	Bristol	
Fenn Mfg Co The	Newington	
Hartford Special Machinery Co The	Hartford	
H P Townsend Mfg Company The	Elmwood	
Lacey Manufacturing Co., The	Bridgeport	
National Sheradizing Machine Co (mandrels & stock shells for rubber industry)	Hartford	
Tucker Machine Co	New Haven	
Special Machining		
Superior Steel Products Corp.	Cheshire	

CONNECTICUT PRODUCTS AND SERVICES

Special Parts		Stampings		Straps, Leather	
American Standard Products, Inc.	Hartford	DooVal Tool & Mfg Inc The	Naugatuck	Auburn Manufacturing Company	The (textile, industrial, skate, carriage)
Fenn Mfg Co The	Newington	Laminated Shim Company Inc	Glenbrook		Middletown
Greist Mfg Co The (small machines, especially precision stampings)	New Haven	Foursome Manufacturing Co	Bristol		
Hartford Machine Screw Company		Lacey Manufacturing Co, The (precision sheet metal)	Bridgeport		
Div of Standard Screw Co	Hartford	Plume & Atwood Mfg Co The (small)	Thomaston	Strip Steel	
J H Sessions & Son	Bristol	Prentice Mfg Co The G E	Kensington	Detroit Steel Corporation	New Haven
Torrington Co The	Torrington	Seovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys—automotive, electrical, radio, etc.—deep drawn, enameled)	Waterbury	Dolan Steel Company Inc	Bridgeport
		Stanley Pressed Metal	New Britain		
Spline Milling Machines		Stampings—Small		Structural Mouldings	
Townsend Mfg Co The HP	Elmwood	Acme Shear Co The	Bridgeport	Leed Co The H A	Hamden
		Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Sporting Goods		Barrett Co William L	Bristol	Studio Couches	
Seamless Rubber Co.	New Haven	Bristol Spring Manufacturing Co	Plainville	Waterbury Mattress Co	Waterbury
		Greist Manufacturing Co The	New Haven		
Spotwelding		Laminated Shim Company Inc	Glenbrook	Super Refractories	
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys)	Stratford	Stanley Humason Inc	Forestville	Mullite Works Refractories Div H K Porter Co Inc	Shelton
		Waterbury Companies, Inc.	Waterbury		
Spouts		Wire Form Inc	Milldale	Surface Metal Raceway & Fittings	
Waterbury Companies, Inc. (for Lighter Fluids and Light Oils)	Waterbury			Wiremold Company The	Hartford
Spray Painting		Stamps		Surgical Dressings	
Stamford Polishing & Plating Corp.	Stamford	Ball-Adam Steel Stamp Co (steel)	New Britain	Acme Cotton Products Co Inc	East Killingly
		Hoggson & Pettis Mfg Co The (steel)	New Haven		
Spray Painting Equipment and Supplies		Parker-Hartford Corporation (steel)	Hartford	Swaging Machinery	
Lea Manufacturing Co The	Waterbury	Schwab & Company (steel)	Bridgeport	Fenn Mfg Co The	Newington
				Torrington Co The	Torrington
Spring Coiling Machines		Stamped Assemblies		Waterbury Farrel Foundry & Machinery Co The Division of Textron Inc	Waterbury
Torrington Manufacturing Co The	Torrington	Cowles & Co., C.	New Haven		
				Sweeping Compounds	
Spring Presses		Stationary Specialties		Nielson & Sons Inc John R	South Windsor
Townsend Mfg Co The H P	Elmwood	American Brass Company The	Waterbury		
				Switches	
Spring Units		Steam Turbines		Allied Control Co., Inc. (subminiature, toggle & pushbutton)	Plantsville
Owen Silent Spring Division American Chain & Cable Company Inc	Bridgeport	Whiton Machine Co.	New London		
				Switchboards Wire and Cables	
Spring Washers		Steel Castings		Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated)	New Haven
Barnes Co The Wallace Div Associated Spring Corp	Terryville	Malleable Iron Castings Co	Branford		
Terryville Manufacturing Co	Terryville	New England Alloy Casting Corp (carbon, low alloy and stainless steel castings)	Hartford	Tableware—Stainless Steel	
		Nutmeg Crucible Steel Co	Branford	Wallace Silversmiths Inc	Wallingford
Springs		Steel—Cold Rolled Spring		Tableware—Sterling Silver	
CE-JA Springs, Inc. (coil & torsion)	Newington	Barnes Co The Wallace Div Associated Spring Corp	Bristol	Wallace Silversmiths Inc	Wallingford
		Detroit Steel Corporation	Hamden		
				Tabulating Equipment—Manual	
Springs—Coil & Flat		Steel—Cold Rolled Stainless		Denominator Company Inc	Woodbury
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Seymour Manufacturing Co The	Seymour	Veeder-Root Incorporated	Hartford
Barrett Co William L	Bristol	Ulrich Stainless Steels	Wallingford		
Bristol Spring Manufacturing Co	Plainville	Wallingford Steel Company	Wallingford	Tanks	
Foursome Manufacturing Co	Bristol			Acme Welding Div United Tool & Die Co	West Hartford
Newcomb Spring Corp The	Southington			Alsop Engineering Co	Milldale
New England Spring Mfg Co	Unionville			Bigelow Company The (steel)	New Haven
Peck Spring Co The	Plainville			Comec Inc Div of Enthone Inc (steel, alloy and lined)	New Haven
Stanley Humason Inc	Forestville			Colonial Blower Co (steel and alloy)	Plainville
		Steel—Cold Rolled Strip		Connecticut Welders Inc (steel, alloy & lined)	Wallingford
		Detroit Steel Corporation	Hamden	Enthone Inc	New Haven
				Norwalk Tank Co. Div. Mersack Industries, Inc.	South Norwalk
Springs—Flat		Steel—Cold Rolled Strip and Sheets		Rolock Inc (Alloy)	Fairfield
Atlantic Precision Spring Co	Forestville	Wallingford Steel Company	Wallingford	Storta Welding Company (steel and alloy)	Meriden
Barnes Co The Wallace Div Associated Spring Corp	Bristol				
Bristol Spring Manufacturing Co	Plainville	Steel Flanges		Tape	
Foursome Manufacturing Co	Bristol	Ideal Forging Corp. (stainless)	Southington	Russell Mfg Co (Glass Electrical Insulating Tapes, Glass Fabrics for Plastic Moulding)	Middletown
Stanley Humason Inc	Forestville				
New England Spring Mfg Co	Unionville	Steel Goods		Tape Machines	
Peck Spring Co	Plainville (Advt.)	Merriam Mfg Co (sheets products to order)	Durham	Better Packages Inc (Manual and electric models for case taping)	Shelton
				Derby Sealers Inc (manual and electric models)	Derby
		Steel—Ground Flat Stock			
Springs—Wire		Thompson & Son Co The Henry G	New Haven	Taps	
Banner Spring Corporation	Hartford			Hanson-Whitney Company The	Hartford
Barnes Co The Wallace Div Associated Spring Corp	Bristol			Pratt & Whitney Co Inc	West Hartford
Bernston Co J W	Plainville	Steel Rolling Rules			
Bristol Spring Manufacturing Co	Plainville	Waterbury Lock & Specialty Co The	Milford	Tap, Drill & Stud Removal	
Colonial Spring Corporation The	Hartford			Walton Co., The	West Hartford
Connecticut Spring Corporation The (compression, extension, torsion)	Hartford				
Foursome Manufacturing Co	Bristol	Steel—Stainless Alloy and Carbon		Tap Extractors	
Stanley Humason Inc	Forestville	Frasse & Co Inc Peter A	Hartford	Walton Co., The (and extensions)	West Hartford
Newcomb Spring Corp The	Southington				
New England Spring Mfg Co	Unionville	Steel Stamps		Tarred Lines	
Peck Spring Co	Plainville	Cooney Engraving Co	Branford	Brownell & Co Inc	Moodus
D R Templeman Co (coil and torsion)	Plainville				
		Stereotypes		Telemetering Instruments	
Springs—Wire		New Haven Electrotpe Div	Electrographic	Bristol Co The	Waterbury
Everett Co., Inc. (coil and torsion)	New Britain	Corp	New Haven		
Terry Spring Company	Terryville			Television—Radio	
		Stop Clocks, Electric		Junior Screw Machine Products Inc	West Haven
Springs, Wire & Flat		H C Thompson Clock Co The	Bristol		
Peck Spring Co	Plainville				
		Storage Batteries			
Stamped Metal Products		R A E Storage Battery Mfg Co	Glastonbury		
American Brass Company The	Waterbury				

CONNECTICUT PRODUCTS AND SERVICES

Temperature Controllers		Tissues		Tubing—Carbon and Stainless Steel	
Electronic Controls, Inc.	Stamford	Sanitary Paper Mills, Inc. (Dovalettes facial, bathroom and handkerchiefs)	East Hartford	Frasse & Co Inc Peter A	Hartford
Terminals		Tires		Tubing—Flexible Metallic	
Waterbury Companies, Inc.	Waterbury	Armstrong Rubber Company The	West Haven	American Brass Co Metal Hose Branch	Waterbury
Testers—Insulation Wire & Cable		Toiletries		Tubing—Heat Exchanger	
Davis Electric Company	Wallingford	Chesebrough-Pond's, Inc.	Clinton	American Brass Company The	Waterbury
Testers—Nondestructive, Ultrasonic		Tool Chests		Scovill Manufacturing Company	Waterbury
Branson Instrument Inc	Stamford	Vanderman Manufacturing Co The	Willimantic	Tumbling Barrels and Accessories	
Sperry Products Inc	Danbury	Tool Hardening		Nielsen & Sons Inc John R	South Windsor
Testing		Commercial Metal Treating Co.	Bridgeport	Tumbling Equipment and Supplies	
American Metalast, Inc. (pressure)	Hamden	Tools		Eabec Barrel Finishing Corp	Byram
State Testing Laboratory Inc (environmental, X-ray, tensile, bearings)	Bridgeport	B & N Tool & Engineering Co (dies, jigs, fixtures, sub-press and progressive)	Thomaston	Tumbling Service	
Textile Printing Gums		Hoggson & Pettis Mfg Co The (rubber workers) 141 Brewery St	New Haven	Eabec Barrel Finishing Corp	Meriden
Polymer Industries Inc	Springdale	Tools & Dies		Turntables	
Textile Processors		Metropolitan Tool & Die	Hartford	Macton Machinery Company Inc (industrial & display)	Stamford
Amerbelle Corporation	Rockville	Lacey Manufacturing Co., The	Bridgeport	Typewriters	
Thermometers		Moore Special Tool Co	Bridgeport	Royal McBee Corp	Hartford
Bristol Co The (recording and automatic control)	Waterbury	Tools, Dies & Fixtures		Underwood Corporation	Hartford
Manning Maxwell & Moore Inc	Stratford	Greist Mfg Co The	New Haven	Typewriter Ribbons and Supplies	
Thin Gauge Metals		Tools, Dies, Jigs & Fixtures		Royal McBee Corp	Hartford and Bridgeport
Plume & Atwood Mfg Co The	Thomaston	Fairfield Tool Co., Inc. The	Bridgeport	Underclearer Rolls	
Thinsheet Metals Co The (plain or tinned in rolls)	Waterbury	Lyons Tool & Die (modelwork, jig boring)	Meriden	Sonoco Products Co (Climax-Lowell Div)	Mystic
Thread		Otterbein Co J A	Middletown	Uniforms	
American Thread Co The	Willimantic	RSV Engineering Co (gages)	Wethersfield	Magson Uniform Co.	Kensington
Belding Heminway Corticelli	Putnam	Telke Tool & Die Mfg Co	Kensington	Ultrasonic Equipment	
Threading		Tools, Fixtures, Gauges		Harris Transducer Corp Sub of General Instrument Corp	Woodbury
Products Design & Mfg. Corp.	Newington	Fredericks Tool Co J F	West Hartford	Branson Ultrasonic Corporation	Stamford
Thread Chasers		Totalizers		Underwater Equipment	
Geometric Tool Division Greenfield Tap & Die Corp	New Haven	Reflectone Electronics, Inc.	Stamford	Seamless Rubber Company	New Haven
Thread Gages		Toys		Universal Joints	
Hanson-Whitney Company The	Hartford	Geo S Scott Mfg Co The	Wallingford	Gray and Prior Machine Co. (for machinery)	Hartford
Pratt & Whitney Co Inc	West Hartford	Gilbert Co The A C	New Haven	V-Belt Drives	
Thread Milling		Gong Bell Mfg Co	East Hampton	Monarch Electric Co (Allis Chalmers)	New Britain
McMellon Bros., Inc.	Bridgeport	N N Hill Brass Co The	East Hampton	Vacuum Bottles and Containers	
Thread Milling Machines		Terryville Manufacturing Co. (stampings for)	Terryville	American Thermos Products Co	Norwich
Pratt & Whitney Co Inc	West Hartford	U S Plastic Molding Corp	Wallingford	Vacuum Cleaners	
Thread Repair Kits		Waterbury Companies Inc	Waterbury	Electrolux Corporation	Old Greenwich
Heli-Coil Corp	Danbury	Transformers		Spencer Turbine Co The	Hartford
Thread Rolling Machinery		Monarch Electric Co (Allis Chalmers)	New Britain	Vacuum Coating	
Hartford Special Machinery Co. (flat die)	Hartford	Trucks—Commercial		Illuminized Finish Co.	Cromwell
Shuster Wire Machine Div. Mettler Machine Tool, Inc.	New Haven	Metropolitan Body Company (International Harvester Truck chassis and "Metro" bodies)	Bridgeport	Vacuum Metallizing	
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Truck—Lift		Aluminized Finish & Mfg. Co.	Cromwell
Threading Machines		Excelsior Hardware Co The	Stamford	Valves	
Grant Mfg & Machine Co The (double end automatic)	Bridgeport	Trucks—Skid Platforms		Jenkins Bros	Bridgeport
Timers, Interval		Excelsior Hardware Co The (lift)	Stamford	Rockwell Co., W. S. (Butterfly)	Fairfield
A W Haydon Co The	Waterbury	Tube Clips		Valves—Aircraft	
H C Thompson Clock Co The	Bristol	Weimann Bros Mfg Co The (for collapsible tubes)	Derby	Bridgeport Thermostat Div Robertshaw-Fulton Controls Co	Milford
Cramer Controls Corporation The	Centerbrook	Tube Fittings		Valves—Relief & Control	
Rhodes Inc M H	Hartford	Scovill Manufacturing Company (UNIFLARE flared tube and LOXIT compression tube)	Waterbury	Beaton & Caldwell Mfg Co	New Britain
Timing Devices		Tubers		Valves—Safety & Relief	
B & N Tool & Engineering Co (development and model work)	Thomaston	Standard Machinery and Davis-Standard Divisions of Franklin Research Corp	Mystic	Manning Maxwell & Moore Inc	Stratford
Cramer Controls Corporation The	Centerbrook	Tubes—Collapsible Metal		Valves—Solenoid	
A W Haydon Co The	Waterbury	Sheffield Tube Corp The	New London	Allied Control Co., Inc.	Plantville
Lux Clock Manufacturing Company	Waterbury	Tubing		Skinner Electric Valve Div of	The Skinner
Rhodes Inc M H	Hartford	American Brass Co The (brass and copper)	Waterbury	Chuck Co	New Britain
United States Time Corporation The	Waterbury	G & O Manufacturing Co (finned)	New Haven	Vanity Boxes	
Timing Devices & Time Switches		Scovill Manufacturing Company (Brass and Copper)	Waterbury	Bridgeport Metal Goods Mfg Co	Bridgeport
A W Haydon Co The	Waterbury	Wallingford Steel Co The (stainless and super metals)	Wallingford	Plume & Atwood Manufacturing Co	Thomaston
M H Rhodes Inc	Hartford	Tinning		Scovill Manufacturing Company	Waterbury
Thinsheet Metals Co The (non-ferrous metals in rolls)	Waterbury	Vanities			
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown				

CONNECTICUT PRODUCTS AND SERVICES

Velvets
American Velvet Co (owned and operated by A Wimpfheimer & Bros Inc) Stonington
Leiss Velvet Mfg Co Inc The Willimantic

Venetian Blinds
Findell Manufacturing Company Manchester
Jennings Company The S Barry New Haven

Ventilating Systems
Colonial Blower Company Plainville
Ventilating Supplies Inc Plainville

Vibration Detection Equipment
Advanced Electronics, Inc. Rocky Hill

Vibrators—Pneumatic
Branford Co The (industrial) New Britain

Vinyl Extrusion & Moulding Compounds
Electronic Rubber Co Stamford

Vise Fixtures
Dery & Sons Tool & Die Co A L Pine Meadow

Vise Jaws
Dery & Sons Tool & Die Co A L (gang with loading trays) Pine Meadow

Vises
Fenn Manufacturing Company The (Quick-Action Vises) Newington
Vanderman Manufacturing Co The (Combination Bench Pipe) Willimantic

Wall Paper
Stamford Wall Paper Co Inc Stamford

Washers
American Felt Co (felt) Glenville
Auburn Manufacturing Company The (all materials) Middletown
Fabricon Corp Unionville
Plume & Atwood Mfg Co The (brass & copper) Thomaston
Terryville Manufacturing Co (Made to order—all metals) Terryville

Washers—Felt
Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

Watches
E Ingraham Co The Bristol
United States Time Corporation The Waterbury

Washers—Precision
Laminated Shim Company Inc Glenbrook

Water Deionizers
Penfield Mfg Co Meriden

Water Heaters
Whitlock Manufacturing Co The (instantaneous & storage) Hartford

Water Heaters—Electric
Bauer & Company Inc Hartford

Waxes
Fuller Brush Co. The (liquid and paste for floor and furniture) East Hartford
Harrison Company The A S (and other protective coatings) South Norwalk

Webbing
Russell Mfg Co (Webbing for Safety Seat Belts—all types of webbing) Middletown

Welded Products
Acme Welding Div United Tool & Die Co West Hartford

Welding
Aircraft Welding & Mfg Co Inc (aluminum, stainless steel, magnesium) Hartford
Ansonia Steel Fabrication Co., Inc., (steel, stainless steel and aluminum fabrication) Ansonia
Connecticut Welders Inc (fabrication & repairs) Wallingford
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators) Hartford
Starts Welding Co Inc (tanks and fabrication) Meriden
Tag Alloy Welding & Mfg Co Inc (nuclear, missile and aircraft type) Glastonbury

Welding—Lead
Connecticut Welders Inc (tanks & coils) Wallingford
Lead Products Inc (tanks and fabrication) Manchester
Starts Welding Company (tanks, coils & anodes) Meriden

Welding—Lead Bricks
Lead Products Inc Manchester

Welding Rods
American Brass Company The Waterbury
Bristol Brass Co The (brass & bronze) Bristol

Welding Solder
Lead Products Inc (wire, bar and cakes and babbitts) Manchester

Wells
Church Co The Stephens B Seymour

Wheel Dressers—Diamonds
Russell Inc RR Newington

Wicks
Auburn Manufacturing Company The (felt, asbestos) Middletown
Holyoke Heater Corp of Conn Inc Hartford

Window & Door Guards
Hartford Wire Works Co The Hartford
Smith Co The John P New Haven

Wire
American Brass Company The Waterbury
Atlantic Wire Co The (steel) Branford
Bartlett Hair Spring Wire Co The North Haven
Bristol Brass Corp The (brass & bronze) Bristol
Driscoll Wire Co The (steel) Shelton
Hudson Wire Co Winsted Div (insulated & enameled magnet) Winsted
Platt Bros & Co The Waterbury
(zinc and zinc alloy wires) Waterbury
Plume & Atwood Mfg Co The (brass, bronze, nickel silver) Thomaston
Scovill Manufacturing Company (Brass, Bronze and Nickel Silver) Waterbury
Viking Wire Co., Inc. (enameled magnet) Danbury

Wire and Cable
Continental Wire Corp (for industrial and military applications) Wallingford
General Electric Company (for residential, commercial and industrial applications) Bridgeport
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (all asbestos, mining, shipboard and appliance applications) New Haven (Advt.)

Wire Arches & Trellises
Hartford Wire Works Co The Hartford

Wire Baskets
Rolock Inc Fairfield
Wiretex Mfg Inc (Industrial, for acid, heat, treating and degreasing) Bridgeport

Wire & Cable—High Temperature
Lewis Engineering Co., The Naugatuck

Wire Cloth
Hartford Wire Works Co The Hartford
C O Jelliff Mfg Co The (all metal, all meshes) Southport
McCluskey Wire Co., Inc. (Fourdrinier) New Haven
Pequot Wire Cloth Co., Inc. (industrial grades only) Norwalk
Rolock Inc (alloy) Fairfield
Smith Co The John P New Haven

Wire Dipping Baskets
Hartford Wire Works Co The Hartford
John P Smith Co The New Haven

Wire Forming Machinery
Nilson Machine Company The A H Shelton
Torrington Manufacturing Company The Torrington

Wire Formings
Master Engineering Company West Cheshire
North & Judd Manufacturing Co New Britain
Oakville Co. Div. Scovill Mfg. Co. Oakville
Peck Spring Co Plainville
Turner & Seymour Manufacturing Co The

Wire Forms
Atlantic Precision Spring Co Forestville
Banner Spring Corporation Hartford
Barnes Co The Wallace Div Associated Spring Corp Bristol
Bristol Spring Manufacturing Co Plainville
Colonial Spring Corporation The Hartford
Connecticut Spring Corporation The Hartford
Foursome Manufacturing Co Bristol
Gemco Manufacturing Co Inc Southington
Stanley Humason Inc Forestville
New England Spring Mfg Co Unionville
Peck Spring Co Plainville
Templeman Co D R Plainville
Terryville Manufacturing Co Terryville
Wire Form Inc Milldale

Wire Goods
American Buckle Co The (overall trimmings) West Haven
Scovill Manufacturing Company (To order) Waterbury

Wire Partitions
Hartford Wire Works Co The Hartford
John P Smith Co The New Haven
Torrington

Wire Products
Artistic Wire Products Inc Taftsville
Stanley Humason Inc Forestville
Peck Spring Co Plainville
Plume & Atwood Mfg Co The (to order) Thomaston

Wire Reels
Nilson Machine Company The A H Shelton
Shuster Wire Machine Div. Mettler Machine Tool, Inc. New Haven
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Wire Rings
American Buckle Co The (pan handles and tinners' trimmings) West Haven
Stanley Humason Inc Forestville
Peck Spring Co Plainville
Templeman Co D R Plainville

Wire—Specialties
Andrew B Hendryx Co The New Haven

Wire Springs
Carlson Spring Company (Torsion, Compression, Extension) Berlin

Wire Straightening and Cutting Machinery
Shuster Wire Machine Div. Mettler Machine Tool, Inc. New Haven

Wiring Devices
Harvey Hubbell Inc Bridgeport

Wood Scrapers
Fletcher-Terry Co The Forestville

Woodwork
C H Dresser & Sons Inc (Mfg all kinds of woodwork) Hartford
Hartford Builders Finish Co Hartford

Woven Felts—Wool
Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

X-ray—Industrial
Bridgeport Testing Laboratory, Inc. Bridgeport

Yarns
Aldon Spinning Mills Corporation The (finewoolen and specialty) Talcottville
Ensign-Bickford Co The (jute-carpet) Simsbury

Zinc
Platt Bros & Co The (ribbon, strip and wire) P O Box 1030 Waterbury

Zinc Castings
Mosman Co., Charles H. Westbrook
Newton-New Haven Co Inc West Haven

Zinc Die Castings
Mt Vernon Die Casting Corporation Stamford
Peasley Products, Inc. Stratford
Stewart Die Casting Div Stewart-Warner Corp Bridgeport



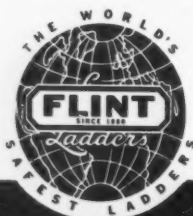
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The Micrometer—Symbol of Precision

(Continued from page 9)

bine. They needed a 21 inch micrometer to measure wear on a shaft. They contacted the largest manufacturers but the item was not available. Finally, they called Slocomb. That same evening Mr. Niles Brook personally delivered the micrometer to HELCO manager's home located about a mile "down the road" from the Slocomb plant.

In Connecticut and throughout the country the metal working and related industries are expanding. Space technology, atomic energy and the burgeoning field of electronics are paving the way to a technical revolution. The emphasis is on precision. "There will be a continuing demand for micrometers; larger micrometers will be needed. We visualize a fairly rapid approach to operations five to ten times our present volume," states Harley J. Brook, treasurer, and A. William Gilwech, secretary of the Slocomb Company.

Soon an attempt will be made to reach the moon. And the crescent-shaped "mike" so similar in appearance to the moon of lore and fancy will play a vital part in the launching toward that fabled satellite. When the moon is reached, one hand may well be grasping a micrometer.

Spotlight on the Future

(Continued from page 47)

continue to shorten their forward commitments.

Employment

Last month's employment situation appeared rather depressing. Optimism was expressed for some improvement later on in the year. Some encouragement was hoped for this month and actually the number reporting lower employment did drop to 21% from April's 26%. On the other hand, only 11% report higher employment than April, as against 13% reporting higher employment last month; 68% report no change.

Buying Policy

A summarization of buying policy as of today looks something like this:

- On most production items: 30-60 days.
- On MRO supplies: Hand-to-mouth—30 days.
- On capital goods items: 90 days—1 year.

The trend is definitely toward shortening and most Purchasing Executives are keeping forward commitments on as current a need/use basis as possible.

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WHY A. H. WELLS HAS TODAY "THE INDUSTRY'S BEST LIGHTED TUBE MILL"



It started because the Company needed a way to increase production. Working hours in the tube redrawing mill, located in Waterbury, were confined to the daytime before the new lighting was installed. Engineers of The Miller Company, Meriden, which recently acquired A. H. Wells, Incorporated, measured the maximum light in the shop at about five foot-candles—even on the brightest day.

Just study again for a moment the contrast shown in the before and after photos above, both

25% uplight, the mill has 100 footcandles of evenly distributed light, making it possible to run a second shift, when necessary, and improving working conditions in the daytime, as well. The new lighting more than meets the minimum standards recommended by the Illuminating Engineering Society for the type of work performed.

How do they like the new lighting? Mr. Donald Gately, Staff Manufacturing Engineer of The Miller Company, thinks it's "The industry's best lighted tube mill". But the enthusiasm and pride expressed by the workers in the shop make them its biggest boosters. A lighting system properly designed to the new IES standards can help your production and employee relations, too. Let a Representative from your electric utility show you how with a See-Level Comparator demonstration. Call now to arrange an appointment at your convenience.

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THE HOUSATONIC PUBLIC SERVICE COMPANY

THE HARTFORD ELECTRIC LIGHT COMPANY
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